The illustrations used for explaining operations in this manual show the buttons of the remote control unit. The same operations can be performed using the buttons with the same names on the main unit panel.

Les illustrations des boutons présentes dans ce manuel servent à expliquer le fonctionnement de la télécommande. Vous pouvez contrôler l’appareil à l’aide du bouton portant le même nom sur la façade de l’appareil.
SAFETY PRECAUTIONS

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION:

• The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths, curtains, etc.
• No naked flame sources, such as lighted candles, should be placed on the unit.
• Observe and follow local regulations regarding battery disposal.
• Do not expose the unit to dripping or splashing fluids.
• Do not place objects filled with liquids, such as vases, on the unit.

ATTENTION:
• La ventilation ne doit pas être gênée en recouvrant les ouvertures de la ventilation avec des objets tels que journaux, rideaux, tissus, etc.
• Aucune flamme nue, par exemple une bougie, ne doit être placée sur l'appareil.
• Veillez à respecter les lois en vigueur lorsque vous jetez les piles usagées.
• L’appareil ne doit pas être exposé à l’eau ou à l’humidité.
• Ne pas poser d’objet contenant du liquide, par exemple un vase, sur l’appareil.

CAUTION:

To completely disconnect this product from the mains, disconnect the plug from the wall socket outlet. The mains plug is used to completely interrupt the power supply to the unit and must be within easy access by the user.

PRECAUTION:
Pour déconnecter complètement ce produit du courant secteur, débranchez la prise de la prise murale. La prise secteur est utilisée pour couper complètement l’alimentation de l’appareil et l’utilisateur doit pouvoir y accéder facilement.
**NOTE ON USE / OBSERVATIONS RELATIVES A L’UTILISATION**

- Avoid high temperatures.
  • Allow for sufficient heat dispersion when installed in a rack.

- Handle the power cord carefully.
  • Hold the plug when unplugging the cord.
  • Manipuler le cordon d’alimentation avec précaution.
  • Tenir la prise lors du débranchement du cordon.

- Do not obstruct the ventilation holes.
  • Never disassemble or modify the unit in any way.

- Keep the unit free from moisture, water, and dust.
  • Protect l’appareil contre l’humidité, l’eau et la poussière.

- Do not let foreign objects into the unit.
  • Ne pas laisser des objets étrangers dans l’appareil.

- Do not let insecticides, benzene, and thinner come in contact with the unit.
  • Ne pas mettre en contact des insecticides, du benzène et un diluant avec l’appareil.

- Unplug the power cord when not using the unit for long periods of time.
  • Débrancher le cordon d’alimentation lorsque l’appareil n’est pas utilisé pendant de longues périodes.

- Never disassemble or modify the unit in any way.
  • Ne jamais démonter ou modifier l’appareil d’une manière ou d’une autre.

---

**FCC INFORMATION (For US customers)**

1. **PRODUCT**
   This product complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this product may not cause harmful interference, and (2) this product must accept any interference received, including interference that may cause undesired operation.

2. **IMPORTANT NOTICE: DO NOT MODIFY THIS PRODUCT**
   This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modification not expressly approved by DENON may void your authority, granted by the FCC, to use the product.

3. **NOTE**
   This product has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
   This product generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product OFF and ON, the user is encouraged to try to correct the interference by one or more of the following measures:
   - Reorient or relocate the receiving antenna.
   - Increase the separation between the equipment and receiver.
   - Connect the product into an outlet on a circuit different from that to which the receiver is connected.
   - Consult the local retailer authorized to distribute this type of product or an experienced radio/TV technician for help.

This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.
Contents

Getting Started
Flow of operations through playback .................................................. 2
Accessories ......................................................................................... 2
Cautions on Handling ........................................................................ 3
Cautions on Installation ....................................................................... 3
About the Remote Control Unit ........................................................... 3
Installing/Setting the Speakers ............................................................. 3
Part Names and Functions ................................................................. 4
Front Panel ......................................................................................... 4
Display .............................................................................................. 4
Rear Panel ......................................................................................... 5
Remote Control Unit .......................................................................... 6

Connections
Important Information ......................................................................... 8
Cables Used for Connections .............................................................. 8
Converting input video signals for output (Video Conversion Function) 9
How the on-screen display is displayed depending on the video input signal 9
Installing/Setting the Speakers ............................................................ 10
Connecting the Speakers .................................................................. 11
Connecting Devices not Equipped with HDMI terminals .................. 12
Once Connections are Completed .................................................... 17
Turning the Power On ..................................................................... 17
Turning the Power Off ..................................................................... 17

Settings
Menu map ......................................................................................... 18
Examples of On-screen Display and Front Display ......................... 19
Making the optimum settings for the connected speakers ............... 20
Automatically (Audyssey Auto Setup) ................................................. 20
Making detailed settings (Manual Setup) ........................................... 25
Making the input settings (Input Setup) .............................................. 32

Playback
Playing Components ........................................................................ 38
Playing Blu-ray Disc / DVD Players ............................................... 38
iPod® playback ............................................................................... 38
Listening to FM/AM broadcasts ....................................................... 39
Listening to SIRIUS Satellite Radio Programs .............................. 40
Operations during playback ................................................................ 42
Selecting the surround mode ............................................................ 42
1. Playing sources according to the sources’ audio signal format/number of channels (Standard playback) 42
2. Playing in a DENON original surround mode .......................... 43
3. Direct playback ........................................................................... 43
4. Stereo playback ......................................................................... 44
5. Playing the Pure Direct mode .................................................. 44
Adjusting the sound field effects (Parameter) ............................... 44
Adjusting the sound field effects (Surround Parameter) .................. 44
Adjusting the tone (Tone Control) .................................................. 46
Making the MultEQ, Dynamic EQ and Dynamic Volume settings (Audyssey Settings) ................................................... 46
Adjust tonal quality for each speaker using graphic equalizer (Manual EQ) ................................................................. 47
Restoring compressed audio to nearly pre-compressed conditions for playback (RESTORE) ...................................... 48
Adjusting the audio delay time while watching the picture (Audio Delay) ................................................................. 48

Checking the Status (Information) .................................................... 48

Convenient functions
HDMI control function ..................................................................... 49
Setting the power to standby after a certain amount of time (Sleep Timer Function) ......................................................... 49
Adjust the volume of the different speakers .................................... 50
Saving frequently used settings (Quick Select Function).................. 50
MAIN ZONE settings ...................................................................... 50
ZONE2 settings ............................................................................ 50
Various memory functions .............................................................. 50

Playing 2-Channel sound in ZONE2 (multizone function) ............... 51

Operating the connected devices by remote control unit
Registering preset codes ................................................................. 52
Operating registered devices ......................................................... 52
Assigning buttons that are not used to operate other devices (Punch Through Function) ......................................................... 54

Other Information ........................................................................... 55
Troubleshooting ............................................................................. 61
Restoring all the settings to as they were at the time of purchase (Resetting the Microprocessor) .................................................. 64
Specifications ............................................................................... 64
List of preset codes ......................................................................... End of this manual

End of this manual
Thank you for purchasing this DENON product. To ensure proper operation, please read this owner’s manual carefully before using the product. After reading them, be sure to keep them for future reference.

Perform the operations leading to playback on the AVR-1910 in the order shown below.

**Connections**
- Installing/Setting the Speakers (page 10)
- Connecting the Speakers (page 11)
- Connecting Devices (page 12)
- Turning the Power On (page 17)

**Settings**
- Audyssey Auto Setup (page 20)
- Manual Setup (page 25)
  ※ Perform “Manual Setup” as necessary.
- Input Setup (page 32)

**Playback**
- Playing Components (page 38)
- Selecting the Surround Mode (page 42)
- Adjusting the Sound Field Effects (page 44)

Check that the following parts are supplied with the product.

1. Owner’s manual...........................................1
2. Getting Started .........................................1
3. Warranty (for North America model only) ..........1
4. Service station list.......................................1
5. Remote control (RC-1117)............................1
6. R6/AA batteries ........................................2
7. FM indoor antenna......................................1
8. AM loop antenna........................................1
9. Setup microphone
   (DM-A409, Cord length: Approx. 25 ft / 7.6 m).....1

  5    7    8    9
Getting Started

Connections

Playback

Remote Control

Information

Troubleshooting

Specifications

Multi-Zone

Settings

Cautions on Handling

• Before turning the power switch on
  Check once again that all connections are correct and that there are
  no problems with the connection cables.

• Power is supplied to some of the circuitry even when the unit is
  set to the standby mode. When traveling or leaving home for long
  periods of time, be sure to unplug the power cord from the power
  outlet.

• About condensation
  If there is a major difference in temperature between the inside of
  the unit and the surroundings, condensation (dew) may form on
  the operating parts inside the unit, causing the unit not to operate
  properly.
  If this happens, let the unit sit for an hour or two with the power
  turned off and wait until there is little difference in temperature
  before using the unit.

• Cautions on using mobile phones
  Using a mobile phone near this unit may result in noise. If so, move
  the mobile phone away from this unit when it is in use.

• Moving the unit
  Turn off the power and unplug the power cord from the power
  outlet.
  Next, disconnect the connection cables to other system units before
  moving the unit.

• Note that the illustrations in these instructions may differ from the
  actual unit for explanation purposes.

Cautions on Installation

Note:
For proper heat dispersal, do not install this unit in a confined
space, such as a bookcase or similar enclosure.

About the Remote Control Unit

In addition to the AVR-1910, the included remote control unit (RC-
1117) can also be used to operate the equipment listed below.

1. DENON system components
2. Non-DENON system components
   • By setting the preset memory (page 52)

Inserting the Batteries

1. Lift the clasp and remove the
   rear cover.

2. Load the two batteries properly
   as indicated by the marks in
   the battery compartment.

3. Put the rear cover back on.

Operating Range of the Remote Control
Unit

Point the remote control unit at the remote sensor when operating it.

Note:
• Replace the batteries with new ones if the set does not operate even
  when the remote control unit is operated close to the unit.
• The supplied batteries are only for verifying operation.
• When inserting the batteries, be sure to do so in the proper direction,
  following the “Θ” and “Θ” marks in the battery compartment.
• To prevent damage or leakage of battery fluid:
  • Do not use a new battery together with an old one.
  • Do not use two different types of batteries.
  • Do not attempt to charge dry batteries.
  • Do not short-circuit, disassemble, heat or dispose of batteries in
    flames.
  • If the battery fluid should leak, carefully wipe the fluid off the inside
    of the battery compartment and insert new batteries.
  • Remove the batteries from the remote control unit if it will not be in
    use for long periods.
  • Used batteries should be disposed of in accordance with the local
    regulations regarding battery disposal.

Cautions on Handling

• Before turning the power switch on
  Check once again that all connections are correct and that there are
  no problems with the connection cables.

• Power is supplied to some of the circuitry even when the unit is
  set to the standby mode. When traveling or leaving home for long
  periods of time, be sure to unplug the power cord from the power
  outlet.

• About condensation
  If there is a major difference in temperature between the inside of
  the unit and the surroundings, condensation (dew) may form on
  the operating parts inside the unit, causing the unit not to operate
  properly.
  If this happens, let the unit sit for an hour or two with the power
  turned off and wait until there is little difference in temperature
  before using the unit.

• Cautions on using mobile phones
  Using a mobile phone near this unit may result in noise. If so, move
  the mobile phone away from this unit when it is in use.

• Moving the unit
  Turn off the power and unplug the power cord from the power
  outlet.
  Next, disconnect the connection cables to other system units before
  moving the unit.

• Note that the illustrations in these instructions may differ from the
  actual unit for explanation purposes.

Cautions on Installation

Note:
For proper heat dispersal, do not install this unit in a confined
space, such as a bookcase or similar enclosure.

About the Remote Control Unit

In addition to the AVR-1910, the included remote control unit (RC-
1117) can also be used to operate the equipment listed below.

1. DENON system components
2. Non-DENON system components
   • By setting the preset memory (page 52)

Inserting the Batteries

1. Lift the clasp and remove the
   rear cover.

2. Load the two batteries properly
   as indicated by the marks in
   the battery compartment.

3. Put the rear cover back on.

Operating Range of the Remote Control
Unit

Point the remote control unit at the remote sensor when operating it.

Note:
• Replace the batteries with new ones if the set does not operate even
  when the remote control unit is operated close to the unit.
• The supplied batteries are only for verifying operation.
• When inserting the batteries, be sure to do so in the proper direction,
  following the “Θ” and “Θ” marks in the battery compartment.
• To prevent damage or leakage of battery fluid:
  • Do not use a new battery together with an old one.
  • Do not use two different types of batteries.
  • Do not attempt to charge dry batteries.
  • Do not short-circuit, disassemble, heat or dispose of batteries in
    flames.
  • If the battery fluid should leak, carefully wipe the fluid off the inside
    of the battery compartment and insert new batteries.
  • Remove the batteries from the remote control unit if it will not be in
    use for long periods.
  • Used batteries should be disposed of in accordance with the local
    regulations regarding battery disposal.

Cautions on Handling

• Before turning the power switch on
  Check once again that all connections are correct and that there are
  no problems with the connection cables.

• Power is supplied to some of the circuitry even when the unit is
  set to the standby mode. When traveling or leaving home for long
  periods of time, be sure to unplug the power cord from the power
  outlet.

• About condensation
  If there is a major difference in temperature between the inside of
  the unit and the surroundings, condensation (dew) may form on
  the operating parts inside the unit, causing the unit not to operate
  properly.
  If this happens, let the unit sit for an hour or two with the power
  turned off and wait until there is little difference in temperature
  before using the unit.

• Cautions on using mobile phones
  Using a mobile phone near this unit may result in noise. If so, move
  the mobile phone away from this unit when it is in use.

• Moving the unit
  Turn off the power and unplug the power cord from the power
  outlet.
  Next, disconnect the connection cables to other system units before
  moving the unit.

• Note that the illustrations in these instructions may differ from the
  actual unit for explanation purposes.

Cautions on Installation

Note:
For proper heat dispersal, do not install this unit in a confined
space, such as a bookcase or similar enclosure.

About the Remote Control Unit

In addition to the AVR-1910, the included remote control unit (RC-
1117) can also be used to operate the equipment listed below.

1. DENON system components
2. Non-DENON system components
   • By setting the preset memory (page 52)

Inserting the Batteries

1. Lift the clasp and remove the
   rear cover.

2. Load the two batteries properly
   as indicated by the marks in
   the battery compartment.

3. Put the rear cover back on.

Operating Range of the Remote Control
Unit

Point the remote control unit at the remote sensor when operating it.

Note:
• Replace the batteries with new ones if the set does not operate even
  when the remote control unit is operated close to the unit.
• The supplied batteries are only for verifying operation.
• When inserting the batteries, be sure to do so in the proper direction,
  following the “Θ” and “Θ” marks in the battery compartment.
• To prevent damage or leakage of battery fluid:
  • Do not use a new battery together with an old one.
  • Do not use two different types of batteries.
  • Do not attempt to charge dry batteries.
  • Do not short-circuit, disassemble, heat or dispose of batteries in
    flames.
  • If the battery fluid should leak, carefully wipe the fluid off the inside
    of the battery compartment and insert new batteries.
  • Remove the batteries from the remote control unit if it will not be in
    use for long periods.
  • Used batteries should be disposed of in accordance with the local
    regulations regarding battery disposal.
Part Names and Functions

Front Panel

Buttons, terminals and displays only provided on the main unit

1. Power indicator .............................................. (17)
2. Power switch (ON/OFF) ................................. (17, 64)
3. Headphones jack (PHONES) ......................... (42)
4. V. AUX INPUT connectors ............................... (16)
5. SETUP MIC jack ............................................. (21)
6. AUDYSSEY DYNAMIC VOLUME indicator ....... (47)
7. HD AUDIO indicator ....................................... (43)
8. MASTER VOLUME indicator ......................... (38)
9. Display .......................................................... (3)
10. Remote control sensor ................................. (3)
11. TUNING PRESET button ............................... (41)
12. SOURCE MODE SELECT button .................... (38)
13. FRONT SPEAKERS SELECT button ................. (42)
14. DIMMER button ............................................ (31)
15. STATUS button .............................................. (48)

Button that function in the same way as remote control buttons

For buttons not explained here, see the page indicated in parentheses ( ).

1. Power operation button ................................. (ON/STANDBY) (17)
2. SURROUND MODE buttons ......................... (42)
3. MENU button ............................................... (18)
4. Cursor buttons (△ ▽ ◄ ►) ............................... (18)
5. ENTER button ............................................. (18)
6. RETURN button ........................................... (18)
7. QUICK SELECT buttons ............................... (50)
8. MASTER VOLUME control knob ................. (38)
9. SOURCE SELECT knob ................................. (38)
10. ZONE2 SELECT button ............................... (51)
11. ZONE2 ON/OFF button ............................. (51)
12. RESTORER button ..................................... (48)
13. DYNAMIC EQ button .................................. (47)
14. DYNAMIC VOLUME button ......................... (47)
15. MULTIEQ button ......................................... (46)

Buttons that function in the same way as Front Panel buttons.
Display

1. **Decoder indicators**
The indicator for the currently operating decoder lights.

2. **Input audio signal indicators**

3. **Information display**
The input source name, surround mode, setting values and other information are displayed here.

4. **Front speaker indicator**
These light according to the settings of the front A and B speakers (page 42).

5. **QUICK SELECT indicators**
These light when the Quick Select function is set (page 50).

6. **ZONE2 indicator**
Lights when signals are being output to the ZONE2 (page 51).

7. **Master volume indicator**
When performing setting operations, displays the menu number.

8. **SLEEP TIMER indicator**
Lights when the sleep timer is operating (page 49).

9. **MUTE indicator**
Lights when the muting mode is set (page 42).

10. **AUDYSSEY indicator**
These light as shown below in the different modes (page 46).

- **AUDYSSEY**
  - **MULTIEQ**
    : During “MultEQ” operation
  - **MULTIEQ DYN EQ**
    : During “MultEQ”, “Dynamic EQ” operation
  - **MULTIEQ DYN VOL**
    : During “MultEQ”, “Dynamic EQ”, “Dynamic Volume” operation

When speaker settings are changed after the Audyssey Auto Setup procedure, either the indicators’ frame turns off or all the indicators turn off.

11. **Input mode indicators**

12. **S.BACK indicator**
Lights when audio signals are being output from the surround back speakers (page 26).

13. **RESTORER indicator**
Lights during “RESTORER” operation (page 48).

14. **HDMI indicator**
Lights when HDMI input signals are detected (page 13).

15. **Tuner reception mode indicators**
This lights according to the reception conditions when the input source is set to “TUNER”.
  - **AUTO**
    This lights when in the auto tuning mode.
  - **STEREO**
    In the FM mode, this lights when receiving analog stereo broadcasts.
  - **TUNED**
    This lights when the broadcast is properly tuned in.
**Part Names and Functions**

**Rear Panel**

1. HDMI connectors (13)
2. Digital audio connectors (14)
3. VIDEO connectors (15)
4. PRE OUT connector (11)
5. SIRIUS connector (16)

REMOTE CONTROL jacks

Connect a device that supports the remote control function.

6. Analog audio connectors (14)
7. FM/AM antenna terminals (17)
8. Speaker terminals (11)
9. Power cord (17)
10. AC OUTLET (17)
11. EXT. IN connectors (16)

12. ZONE2 connectors (51)
13. COMPONENT VIDEO connectors (14)
14. Control Dock for iPod S-Video input terminal (14)
15. Control Dock for iPod DOCK CONTROL jack (14)

Extension jack for future use. (Connect devices corresponding with room to room function to this jack.)
Remote Control Unit

Remote control signal transmitter
Indicator .............................................. (52)
Power buttons ........................................... (17)
QUICK SELECT buttons ............................... (50)
SOURCE SELECT button ................................. (38)
System buttons .......................................... (52)
MENU button .............................................. (18)
Cursor buttons (△ ▽ ◄ ►) ......................... (18)
SEARCH button ......................................... (39)
DEVICE SELECT switches ............. (38, 52)
Master volume control buttons ............. (38)
MUTING button .......................................... (42)
Channel level adjustment button ............ (50)
RETURN button ............................................ (18)
ENTER button .............................................. (18)
ZONE2 power button ................................. (51)
Tuner operation buttons ...................... (40)
MULT EQ button .......................................... (46)
Number buttons (0 ~ 9, +10) .......... (52)
MAIN ZONE power buttons ................. (17)
INPUT MODE button ................................. (34)
SLEEP TIMER button ............................... (49)
VIDEO SELECT button ............................... (34)
RESTORE button ........................................ (48)
FRONT HEIGHT SPEAKER ON/OFF button [(46)
Surround mode buttons ....................... (42)
DYNAMIC VOLUME button ................. (47)
DYNAMIC EQ button ............................... (47)

For buttons not explained here, see the page indicated in parentheses ( ).

NOTE

Operations possible by remote control

Operations on the AVR-1910
Operations on six devices other than the AVR-1910

- Preset the remote control codes of the devices to be operated (page 52).
- Switch two device selector switches according to the devices to be operated.

Position of switches

<table>
<thead>
<tr>
<th>Position of switches</th>
<th>Operable devices</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAIN</td>
<td>AVR-1910 (MAIN ZONE)</td>
</tr>
<tr>
<td>ipod</td>
<td>iPod</td>
</tr>
<tr>
<td>ZONE2</td>
<td>AVR-1910 (ZONE2)</td>
</tr>
<tr>
<td>blu-ray disc player</td>
<td>TV</td>
</tr>
<tr>
<td>dvd player</td>
<td>Blu-ray disc player or DVD Player</td>
</tr>
<tr>
<td>dvd recorder</td>
<td>DVD Recorder or Video deck</td>
</tr>
<tr>
<td>video deck</td>
<td>Satellite receiver or Cable TV</td>
</tr>
</tbody>
</table>

ZONE2 operations (page 51)
Punch through setting (page 54)

Buttons on the back panel may operate when the back lid is pressed.
Connections

Connection Flow

- Installing/Setting the Speakers (page 10)
- Connecting the Speakers (page 11)
- Connecting Devices (page 12)
- Connecting Devices not Equipped with HDMI terminals (page 13)

Cables Used for Connections

Select the cables according to the equipment being connected.

Audio and video cables

- HDMI connections
- Audio cables
- Coaxial digital connections
- Optical digital connections
- Analog connections (White)
- Analog connections (Red)
- Analog connections (monaural, for subwoofer)
- Speaker connections

Video cables

- Component video connections (Green)
- Component video connections (Blue)
- Component video connections (Red)
- S-Video connections
- Video connections (Yellow)
- 75 Ω/ohms pin-plug video cable

Important Information

Connections for all compatible audio and video signal formats are described in this owner’s manual. Please select the types of connections suited for the equipment you are connecting.

After connections are completed, certain settings must be made on the receiver. Make the settings indicated “Set as necessary” for the individual items.

NOTE

- Do not plug in the power cord until all connections have been completed.
- When making connections, also refer to the operating instructions of the other components.
- Be sure to connect the left and right channels properly (left with left, right with right).
- Do not bundle power cords together with connection cables. Doing so can result in humming or noise.

Cables Used for Connections

Select the cables according to the equipment being connected.

Audio and video cables

- HDMI connections
- Audio cables
- Coaxial digital connections
- Optical digital connections
- Analog connections (White)
- Analog connections (Red)
- Analog connections (monaural, for subwoofer)
- Speaker connections

Video cables

- Component video connections (Green)
- Component video connections (Blue)
- Component video connections (Red)
- S-Video connections
- Video connections (Yellow)
- 75 Ω/ohms pin-plug video cable
Converting Input video signals for Output (Video Conversion Function)

The AVR-1910 is equipped with four types of video input terminals (HDMI, Component video, S-Video and video) and three types of video output terminals (HDMI, Component video and video). Use the terminals according to the devices to be connected. This function automatically converts various formats of video signals input to the AVR-1910 into the format used to output the video signals from the AVR-1910 to a monitor.

- The video conversion function supports the NTSC, PAL, SECAM, NTSC 4.43, PAL-N, PAL-M and PAL-60 formats.
- The resolution of the video signal input to the AVR-1910’s HDMI terminal is the resolution set at “Resolution” (page 34). (1080p HDMI signals and 1080p component signals are output at 1080p, regardless of the setting.)
- Resolutions of HDMI-compatible TVs can be checked at “HDMI Monitor Information” (page 48).

**NOTE**

- The S-Video input terminal is exclusively for use with a Control Dock for iPod. It can be used when the Control Dock for iPod is connected to the terminal assigned to the iPod input source.
- HDMI signals cannot be converted into analog signals.
- When a non-standard video signal from a game machine or some other source is input, the video conversion function might not operate.

How the on-screen display is displayed depending on the video input signal

The way the on-screen display of the menus, status, etc., is displayed differs according to the type of video signal input to the AVR-1910.

When video signals are input from the HDMI or component video terminals

- **Menu**: Switches to a screen with a black background and the menu is superimposed. (※1)
- **Status display**: Not displayed.

※1: If you want to display the menus superimposed on the picture being played, input the same video signals to the S-Video or video terminals. When a menu is displayed, the picture switches to the one being input from the S-Video or video terminals and the menu is displayed superimposed over this picture.

**NOTE**

Menus and status display screens are not displayed for component video terminal pictures. To display them, also connect the video terminals.

When video signals are being input from the S-Video or video terminals

- **Menu**: Menus are displayed superimposed over the picture being played.
- **Status display**: Displayed.

Examples of on-screen display

- **Menu screen**
  - Status display screen
  - When the input source is switched
  - When the volume is adjusted

- **Status display**
  - The operating status is displayed temporarily on the screen when the input source is switched or the volume is adjusted.
Installing/Setting the Speakers

• The AVR-1910 is compatible with various types of surround playback.
• Decide on the surround modes to be played on the AVR-1910 before making connections and settings.

1 Determine the Speaker Layout.

Below we introduce examples of speaker layouts. Refer to these to arrange your speakers according to their type and how you want to use them.

Installing All the Speakers

Determine the Speaker Layout.

NOTE

It is not possible to use the front height speakers and surround back speakers simultaneously.
Get Started
Playback
Remote Control
Information
Troubleshooting
Specifications

ENGLISH

Getting Started
Playback
Remote Control
Information
Troubleshooting
Specifications

Protection circuit

If the core wires touch the rear panel and the screws etc., or the ± sides touch each other, the protection circuit will be activated and the power indicator will flash red at intervals of 0.5 secs.

If the protection circuit is activated, the speaker output is isolated, and the power supply goes to the standby state. If the power supply is turned off, after the power supply cord is withdrawn, please confirm that speaker cable and input cable are connected.

Also, if replaying large sound levels by using a speaker having an impedance less than that specified (eg, 4 Ω/ohms), the temperature will rise, and the protection circuit might be activated. The power supply will go into the standby state, and the power indicator will flash red at 2 second intervals.

In this case, please switch off the power supply, and wait until the AVR-1910 has cooled down, and the surrounding ventilation is good.

Even if there are no problems with the surrounding ventilation and connections, in the event of the protection circuit becoming activated, due to thinking that the AVR-1910 has failed, please contact DENON Service center after switching off.
Connecting the Speaker Cables

Carefully check the left (L) and right (R) channels and + (red) and – (black) polarities on the speakers being connected to the AVR-1910, and be sure to interconnect the channels and polarities correctly.

1. Peel off about 10 mm of sheathing from the tip of the speaker cable, then either twist the core wire tightly or terminate it.
2. Turn the speaker terminal counterclockwise to loosen it.
3. Insert the speaker cable’s core wire to the hilt into the speaker terminal.
4. Turn the speaker terminal clockwise to tighten it.

When using a banana plug

Tighten the speaker terminal firmly before inserting the banana plug.

NOTE

1. Connect the speaker cables in such a way that they do not stick out of the speaker terminals. The protection circuit may be activated if the core wires touch the rear panel or if the + and – sides touch each other (“Protection circuit”).
2. Never touch the speaker terminals while the power supply is connected. Doing so could result in electric shock.

Connecting the Speakers

About bi-amp connections

These connections make for higher quality playback sound with no interference between the signals of the bass and treble units. When the amplifier assignment mode is set to “Front A Bi-Amp” or “Front B Bi-Amp,” connect as shown below. (The illustration shows a connection example for the front B Bi-Amp speakers.)

When in the “Front A Bi-Amp” and “Front B Bi-Amp” modes, the same signals are output from the front speaker terminals and the AMP ASSIGN terminals.

NOTE

1. Use speakers compatible with bi-amp connections.
2. When making bi-amp connections, be sure to remove the short-circuiting plate or wire between the speaker’s woofer and tweeter terminals.

Connecting Devices

Connecting Devices Equipped with HDMI terminals

Important Information

About HDMI

“HDMI” is the abbreviation of “High Definition Multimedia Interface”. This interface allows transfer of digital video signals and digital audio signals over a single HDMI cable.

“HDMI”, “HDMI logo” and “High-Definition Multimedia Interface” are trademarks or registered trademarks of HDMI Licensing LLC.

Functions usable with HDMI connections

Deep Color
Eliminates on-screen color banding, for smooth tonal transitions and subtle gradations between colors.

x.v.Color
Enables displays with natural, vivid colors. “x.v.Color” is a Sony registered trademark.

Auto Lip Sync (page 28)
HDMI 1.3 incorporates an automatic video/audio synching capability that allows devices to perform this synchronization automatically with total accuracy.

HDMI control function (page 28, 49)
This function allows you to operate external devices from the receiver and operate the receiver from external devices.

NOTE

These functions will not work if the device connected to the HDMI terminal does not support Deep Color or x.v.Color signal transfer or the Auto Lip Sync function.

Copyright protection system (HDCP)

The AVR-1910 supports HDCP (High-bandwidth Digital Contents Protection). HDCP is a copyright protection technology for digital video signals. The devices connected to the AVR-1910 must also support HDCP.

NOTE

When a device that does not support HDCP is connected, video signals are not properly output.
Connecting Devices not Equipped with HDMI terminals

Monitor (TV)

• Select the terminal to use and connect the device.
• For video connections, see “Converting input video signals for output (Video Conversion Function)” on page 9.

For instructions on HDMI connections, see “Connecting Devices Equipped with HDMI terminals” on page 12.

Connecting to a device equipped with a DVI-D terminal

When an HDMI/DVI conversion cable (sold separately) is used, the HDMI video signals are converted to DVI signals, allowing connection to a device equipped with a DVI-D terminal.

NOTE

• No sound is output when connected to a device equipped with a DVI-D terminal. Also make the audio connections.
• Signals cannot be output to DVI-D devices that do not support HDCP.
• Depending on the combination of devices, the video signals may not be output.

Settings related to HDMI connections

Set as necessary. For details, see the respective reference pages.

Input terminal assignment (page 33)

Set this when changing the input sources of the different terminals.

HDMI Setup (page 28)

Make these settings related to HDMI input/output signals.

• Auto Lip Sync
• HDMI Audio Out
• HDMI Control
• Standby Source
• Power Off Control

NOTE

The audio signals output from the HDMI connectors are only the HDMI input signals.

Connecting devices

The AVR-1910 allows connection of inputs from up to 4 HDMI devices and output to 1 TV.

- DVD
- Blu-ray Disc Player
- SAT/CABLE Tuner
- Digital Video Recorder
- Monitor (TV)

• Use a cable on which the HDMI logo is indicated (a certified HDMI product) for connection to the HDMI connector. Normal playback may not be possible when using a cable other than one on which the HDMI logo is indicated (a non-HDMI-certified product).

• When the AVR-1910 is connected to other devices with HDMI cables, also connect the AVR-1910 and TV using an HDMI cable.

• When a device supporting Deep Color signal transfer is connected, use a cable compatible with HDMI ver.1.3a.

• Video signals are not output if the input video signals do not match the monitor's resolution. In this case, switch the Blu-ray Disc player / DVD player’s resolution to a resolution with which the monitor is compatible.

NOTE

• If the menu “HDMI Audio Out” setting (page 28) is set to “AMP”, the sound may be interrupted when the monitor's power is turned off.

• The audio signal from the HDMI output terminal (sampling frequency, number of channels, etc.) may be limited by the HDMI audio specifications of the connected device regarding permissible inputs.
Connecting Devices not Equipped with HDMI terminals

**Playback Components**

**Blu-ray Disc player / DVD player**
Select the terminal to use and connect the device.

For instructions on HDMI connections, see “Connecting Devices Equipped with HDMI terminals” on page 12.

**Control dock for iPod®**
Use a DENON control dock for iPod (ASD-1R, ASD-11R, ASD-3N or ASD-3W sold separately) to connect the iPod to the AVR-1910. For instructions on the control dock for iPod settings, refer to the control dock for iPod’s operating instructions.

**CD Player**

**Set as necessary**
Set this to change the input signal to which the input source is assigned.
“Assign” (page 33)

**Set as necessary**
Set this to assign the iPod to a terminal other than “VCR (iPod)” “iPod Dock” (page 33)

NOTE
When connected to a Blu-ray Disc player, and playing Dolby TrueHD, DTS-HD, Dolby Digital Plus, connect the HDMI.

With the default settings, the iPod can be used connected to the VCR (iPod) connector.
**Recording Components**

**Digital Video Recorder**
Select the terminal to use and connect the device.

For instructions on HDMI connections, see “Connecting Devices not Equipped with HDMI terminals” on page 12.

**Video Cassette Recorder**
Select the terminal to use and connect the device.

For instructions on HDMI connections, see “Connecting Devices Equipped with HDMI terminals” on page 12.

**SAT/CABLE Tuner**
Select the terminal to use and connect the device.

For instructions on HDMI connections, see “Connecting Devices Equipped with HDMI terminals” on page 12.

**NOTE**
- To record video signals through the AVR-1910, use the same type of video cable for connection between the AVR-1910 and the player as the cable used for connection between the AVR-1910 and the recorder.
- Do not connect the output of the component connected to the AVR-1910’s OPTICAL2 output connector to any input connector other than OPTICAL2.
Connecting Devices not Equipped with HDMI terminals

**SIRIUS Connector**

- The AVR-1910 is a SIRIUS Satellite Radio Ready® receiver. You can receive SIRIUS® Satellite Radio by connecting to the SiriusConnect Home Tuner and subscribing to the SIRIUS service.
- Plug the SIRIUS connector on the rear panel.
- Position the Home Tuner antenna near a south-facing window to receive the best signal. For details, see “Listening to SIRIUS Satellite Radio Programs” (page 40, 41).
- When making connections, also refer to the operating instructions of the SiriusConnect Home Tuner.

**NOTE**
Keep the power cord unplugged until the SiriusConnect Home Tuner connection have been completed.

*SIRIUS, XM and all related marks and logos are trademarks of Sirius XM Radio Inc. and its subsidiaries. All rights reserved. Service not available in Alaska and Hawaii.*

- When connecting digital of the SiriusConnect Home Tuner, perform the setting “Assign” (page 33) from the menu.

**Positioning the Antenna**
For a consistent satellite signal, the antenna must be positioned correctly. Use the following map to determine which area you are in and position the antenna accordingly.

Area 1: Point the antenna toward the sky in the east, northeast, or southeast, either through a window or outside.

Area 2: Point the antenna toward the sky in the north or northeast, either through a window or outside.

Area 3: Point the antenna toward the sky in the north or northwest, either through a window or outside.

Area 4: Point the antenna toward the sky in the west, northwest, or southwest, either through a window or outside.

Area 5: Put the antenna outside and point it straight up. The antenna cannot be used indoors.

---

**Other Devices**

### Video Camera / Game Console

**Video camera / Game console**

**Component with Multi-channel Output connectors**

The video signal can be connected in the same way as a Blu-ray Disc player / DVD player (page 14).

**Blu-ray Disc player / DVD player / External decoder**

To play analog signals input from the external input (EXT. IN) terminal, set “Input Mode” (page 34) on the menu to “EXT. IN.” “EXT. IN” can also be selected with the SETUP button.

**Set as necessary**

When connecting digital of the SiriusConnect Home Tuner, perform the setting “Assign” (page 33) from the menu.

---

**ENGLISH**
Connecting Devices not Equipped with HDMI terminals

3 Return the lever.

NOTE
- Do not connect two FM antennas simultaneously.
- Even if an external AM antenna is used, do not disconnect the AM loop antenna.
- Make sure the AM loop antenna lead terminals do not touch metal parts of the panel.

Connecting the Power Cord

Wait until all connections have been completed before connecting the power cord.

Once Connections are Completed

Turning the Power On

1 Press \( \text{ON/OFF} \) .
   The power indicator lights red and the power is set to the standby mode.

2 Press \( \text{ON} \) .
   The power indicator flashes green and the power turns on.
   ※ Also press \( \text{ON/OFF} \) when in standby mode, the power turns on.
   When \( \text{SOURCE SELECT} \) has been pressed, the input source set with the \( \text{SOURCE SELECT} \) is set. If a \( \text{SOURCE SELECT} \) has been pressed, the input source stored in the memory for the quick select function is set (page 50 “Saving frequently used settings (Quick Select Function)”).

   This operation can be also performed by pressing a on the main unit.

Turning the Power Off

1 Press \( \text{OFF} \) .
   The power is set to the standby mode.

2 Press \( \text{OFF} \) .
   The power indicator turns off, and so does the power.

   ※ This operation can also be performed by pressing a on the main unit.

   NOTE
- Power continues to be supplied to some of the circuitry even when the power is in the standby mode. When leaving home for long periods of time or when traveling, either press \( \text{OFF} \) to turn off the power, or unplug the power cord from the power outlet.
- When the ZONE2 power is switched on, and you want to switch off the MAIN ZONE power, press \( \text{OFF} \).

Antenna terminals

Direction of broadcasting station

- FM antenna
- 75 Ω/ohms Coaxial cable
- AM loop antenna (supplied)
- FM indoor antenna (supplied)
- AM outdoor antenna
- Ground

AM loop antenna assembly

1 Remove the vinyl tie and take out the connection line.
2 Bend in the reverse direction.
3-1 With the antenna on top of any stable surface.
3-2 With the antenna attached to a wall.

Connection of AM antennas

1 Push the lever.
2 Insert the conductor.

NOTE
- Insert the AC plugs securely. Incomplete connections could cause noise.
- Only use the AC outlets to plug in audio equipment. Do not use them as power supplies for hairdryers or anything other than audio equipment.
With the AVR-1910, settings and operations for most functions can be performed by operating while looking at the menus displayed on the monitor screen.

### Menu map

- **Operations**
  - Press \( \text{MENU} \) \( \text{ENT} \) to select the item you want to set, then press \( \text{MEM} \).
  - To return to the previous item, press \( \text{MEM} \).
  - Select “Default Yes”, then press \( \text{MEM} \) to reset to the default setting.

### Setting menus

1. **Parameter**
   - Adjust various audio parameters.
   - Number: 1-1, 1-2, 1-3, 1-4, 1-5, 1-6
   - Detailed items:
     - Surround Parameter
     - Tone Control
     - Audyssey Settings
     - Manual EQ
     - RESTORER
     - Audio Delay
   - Description:
     - Adjust surround sound parameters.
     - Adjusts the treble and bass tone.
     - Makes the MultEQ, Dynamic EQ and Dynamic Volume settings.
     - Adjust tonal quality for each speaker using graphic equalizer.
     - Uncompress compressed sources and apply bass boost for richer sound.
     - Compensate for incorrect timing between video and audio.

2. **Information**
   - Shows information about receiver settings, input signals, etc.
   - Number: 2-1, 2-2, 2-3, 2-4, 2-5, 2-6
   - Detailed items:
     - Status
     - Audio Input Signal
     - HDMI Information
     - Auto Surround Mode
     - Quick Select
     - Preset Channel
   - Description:
     - Shows information about current settings.
     - Shows information about audio input signals.
     - Displays the HDMI input/output signals and TV information.
     - Displays the settings stored for the auto surround mode.
     - Displays the settings stored for the Quick Select function.
     - Shows information about preset channels.

3. **Auto Setup**
   - Makes the optimum speaker settings and corrects for the acoustic characteristics of the room.
   - Number: 3-1, 3-2
   - Detailed items:
     - Audyssey Auto Setup
     - Parameter Check
   - Description:
     - Makes the optimum settings for the speakers being used automatically.
     - Check Audyssey Auto Setup measurement results. This item is only displayed after the Audyssey Auto Setup procedure has been performed.

4. **Manual Setup**
   - Use this to make various types of detailed settings.
   - Number: 4-1, 4-2, 4-3, 4-4, 4-5
   - Detailed items:
     - Speaker Setup
     - HDMI Setup
     - Audio Setup
     - ZONE2 Setup
     - Option Setup
   - Description:
     - Sets the speaker size and distance, the channel level, etc.
     - Make settings for HDMI video/audio output.
     - Make settings for audio playback.
     - Make settings for audio playback in a ZONE2 system.
     - Make various other settings.

5. **Input Setup**
   - Use this to make settings related to playing input sources.
   - Number: 5-1, 5-2, 5-3, 5-4, 5-5, 5-6, 5-7, 5-8, 5-9
   - Detailed items:
     - Assign
     - Video
     - Input Mode
     - Rename
     - Source Level
     - iPod Playback Mode
     - Auto Preset
     - Preset Skip
     - Preset Name
     - Parental Lock
     - Antenna Aiming
   - Description:
     - Change input connector assignment.
     - Makes the video settings.
     - Sets the audio input mode and decode mode.
     - Change the display name for this source.
     - Adjust the playback level of the audio input.
     - Make settings for iPod playback.
     - Use the auto preset function to program radio stations.
     - Set the preset memories that you do not want to display when tuning.
     - Assign name to a preset memory.
     - Set the channel radio reception limits.
     - Check the SIRIUS radio reception sensitivity.

Items that only need to be set once

Set these for example upon purchase. Once these items are set, there is no need to set them again unless the speaker layout or the connected speakers have been changed.

---

**Notes:**
- Use the arrow buttons to select the item.
- Press the Enter button to set.
- Press the Mem button to go to the previous item.
### Examples of On-screen Display and Front Display

Below we describe typical examples of displays on the TV screen and on the set’s display window.

<table>
<thead>
<tr>
<th>On-screen Display</th>
<th>Front Display</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Top menu display</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| ![Top menu display](image1) | ![Top menu display](image2) | ①: The menu items are displayed here.  
②: The selected line is displayed here.  
The currently selected item is displayed on the display.  
Use △▽ to move to the item you want to set.  
③: The number of the current selected setting menu is displayed. |
| **Display when changing settings** |
| ![Display when changing settings](image3) | ![Display when changing settings](image4) | ①: The number of the current selected setting menu is displayed.  
②: Use △▽<left> <right> to move to the item you want to set.  
③: Press ▼ to set to the mode in which the setting can be made. |
| **Display when inputting characters** |
| ![Display when inputting characters](image5) | ![Display when inputting characters](image6) | ①: When <left> <right> is pressed, the cursor moves to the left or right.  
②: When △▽ is pressed at the position at which you want to input the character, the character is input.  
③: The number of the current selected setting menu is displayed. |
| **Display when resetting** |
| ![Display when resetting](image7) | ![Display when resetting](image8) | ①: Press ▼ to select “Default,” then press □ to set.  
②: The number of the current selected setting menu is displayed. |
Making the Optimum Settings for the Connected Speakers Automatically (Audyssey Auto Setup)

The acoustic characteristics of the connected speakers and listening room are measured and the optimum settings are made automatically.

重要的信息

Audyssey MultEQ® automatically measures the acoustical problems in the listening environment to create the best audio experience for your home theater.

- When the Audyssey Auto Setup procedure is performed, the MultEQ, Dynamic EQ and Dynamic Volume functions are enabled.
- Use the included setup microphone (DMA-A409) to perform the Audyssey Auto Setup procedure.
- Measurements are performed by placing the calibrated microphone successively at multiple positions throughout the listening area as shown in [Example 1]. For best results, it is strongly recommended to measure 6 positions so that the measurements have the proper spatial weighting.
- Even if the listening environment is small as shown in [Example 2], measuring at multiple points throughout the listening environment results in more effective correction.

When using Front Height Speakers

[Example 1] [Example 2]

When using Surround Back Speakers

[Example 1] [Example 2]

Note

- Loud test sounds may be played during Audyssey MultEQ automatic speaker setup. This is part of normal operation. If there is background noise in room, these test signals will increase in volume.
- Do not stand between the speakers and setup microphone or allow obstacles in the path while the measurements are being made. This will cause inaccurate readings.
- Make the room as quiet as possible. Background noise can disrupt the room measurements. Close windows, silence cell phones, televisions, radios, air conditioners, fluorescent lights, home appliances, light dimmers, or other devices as measurements may be affected by these sounds.
- Cell phones should be placed away from all audio electronics during the measurement process as Radio Frequency Interference (RFI) may cause measurement disruptions (even if the cell phone is not in use).
Making the Optimum Settings for the Connected Speakers Automatically (Audyssey Auto Setup)

1. **Check the speaker connections.**
   - (page 11 “Connecting the Speakers”)

2. **Turn on the power of the TV and subwoofer.**
   - Set the TV’s input to the AVR-1910.

3. **Turn on the AVR-1910’s power.**
   - (page 17 “Turning the Power On”)

4. **Connect the included calibrated setup microphone to the SETUP MIC jack on the main unit.**
   - The Audyssey Auto Setup screen appears automatically.

5. **Mount the setup microphone on a tripod or stand and install it at the main listening position.**
   - When installing the setup microphone, adjust its height so that the section where the sound is received is at the height of the ears during listening.

### Step 2: Audyssey Auto Setup Preparations

If adjustment to the environment is necessary, set the following items before proceeding.

**Setting the speakers for playing the front channel (Front Sp.)**

The front speaker to be measured can be selected ahead of time here.

1. **Press △ ▼ to select “Front Sp.”.**

2. **Use ◀ ▶ to select the speakers.**

   - **A**: The sound is output from front speakers A when measuring the front speakers.
   - **B**: The sound is output from front speakers B when measuring the front speakers.
   - **A + B**: The sound is output simultaneously from front speakers A and B when measuring the front speakers.

### NOTE

- Do not disconnect the setup microphone until the Audyssey Auto Setup procedure is completed.
- When using headphones, unplug the headphones before starting the Audyssey Auto Setup procedure.
- Do not hold the microphone in your hand during measurements.
- Avoid placing the microphone close to a seat back or wall as sound reflections may give inaccurate results.

**When using a subwoofer on which the volume can be adjusted and the crossover frequency can be set**

When using a subwoofer, make the following settings before starting the Audyssey Auto Setup procedure:

- **When using a subwoofer with a direct mode**
  - Set the direct mode to “On” and disable the volume adjustment and crossover frequency setting.

- **When using a subwoofer without a direct mode**
  - Make the following settings:
    - **Volume**: “12 o’clock position”
    - **Crossover frequency**: “Maximum/Highest Frequency”
    - **Low pass filter**: “Off”
    - **Standby mode**: “Off”

### NOTE

- Do not hold the microphone in your hand during measurements.
- Avoid placing the microphone close to a seat back or wall as sound reflections may give inaccurate results.

**Step 1 : Connect the included Setup Microphone**

- **Check the speaker connections.**
  - When using headphones, unplug the headphones before starting the Audyssey Auto Setup procedure.

- **Turn on the power of the TV and subwoofer.**
  - Set the TV’s input to the AVR-1910.

- **Turn on the AVR-1910’s power.**

- **Connect the included calibrated setup microphone to the SETUP MIC jack on the main unit.**
  - The Audyssey Auto Setup screen appears automatically.

- **Mount the setup microphone on a tripod or stand and install it at the main listening position.**
  - When installing the setup microphone, adjust its height so that the section where the sound is received is at the height of the ears during listening.

Please place microphone main listening position.

- **To cancel Audyssey Auto Setup**
  - Use △ ▼ to select “Cancel”, then use ◀ ▶ to select “Yes”.

### Setup microphone
Changing the amplifier assignment (Amp Assign)

The signals output from the AVR-1910's SURR. BACK/AMP ASSIGN speaker terminals can be switched to signals of the surround mode being used.

1 Press \(\Delta \nabla\) to select “Amp Assign”.

2 Press \(< \) \(>\) to select Amp Assign Mode.

- **Normal**: The sound of the surround back channel is output from the speakers connected to the SURR. BACK/AMP ASSIGN terminals.
- **ZONE2**: If the ZONE2 power is on, the sound of the ZONE2 channel is output from the speakers connected to the SURR. BACK/AMP ASSIGN terminals.
- **Front A Bi-Amp**: The sound of the front A bi-amp channel is output from the speakers connected to the SURR. BACK/AMP ASSIGN terminals.
- **Front B Bi-Amp**: The sound of the front B bi-amp channel is output from the speakers connected to the SURR. BACK/AMP ASSIGN terminals.
- **Front Height**: The sound of the front height channel is output from the speakers connected to the SURR. BACK/AMP ASSIGN terminals.

To cancel Audyssey Auto Setup

Use \(\Delta \nabla\) to select “Cancel”, then use \(< \) \(>\) to select “Yes”

### Step 3 : Performing the Audyssey Auto Setup Procedure

1 Press \(\Delta \nabla\) to select “Start”, then press \(\text{[ENT]}\). Detection of the speaker configuration starts.

2 Once all the speakers have been detected and the screen on the right appears, check the results of detection of the connected speakers.

3 Once you have checked the results, use \(\Delta \nabla\) to select “Next”, then press \(\text{[ENT]}\). Measurements for the main listening position begin.

4 Once the screen on the right appears, move the setup microphone to the second position, use \(\Delta \nabla\) to select “Next”, then press \(\text{[ENT]}\). Measurements for the second position begin.

5 Perform Step 4 repeatedly for the 3rd, 4th, 5th, and 6th measurements.

- Once measurements for the sixth position are completed, “All the measurements were finished” is displayed.
- Measure at a total of six positions, including the main listening position and positions around it. It is possible to stop the settings with five positions or fewer, but for better results we recommend measuring at six positions.

6 Once measurements are finished, use \(\Delta \nabla\) to select “Calculate”, then press \(\text{[ENT]}\). Analysis begins.

7 Use \(\Delta \nabla\) to select the item you want to check, then press \(\text{[ENT]}\).

- The measurement result confirmation screen is displayed.
- Subwoofers or other speakers may be set to a value that does not correspond to the actual distance.
Making the Optimum Settings for the Connected Speakers Automatically (Audyssey Auto Setup)

8 Press \textit{OK}. This returns you to analysis results items, so repeat step 7.

9 Press \textit{\downarrow} to select “Next”, then press \textit{OK}.

10 Press \textit{\uparrow \downarrow} to select “Store”, then press \textit{OK}.

\begin{itemize}
\item “Storing Please wait...” is displayed on the on-screen display while the results are being stored.
\item When storing is complete, “Storing complete. Auto Setup is now finished.” is displayed on the on-screen display.
\end{itemize}

\textbf{NOTE}

If you do not want to save the measurement results, use \textit{\uparrow \downarrow} to select “Cancel”, then select “Yes” using \textit{\leftarrow \rightarrow}. All the measured Audyssey Auto Setup data will be erased.

\textbf{NOTE}

Do not turn the power off while the settings are being stored.

12 Disconnect the setup microphone from the AVR-1910.

\begin{itemize}
\item If the result differs from the actual connection status or an error message appears, use \textit{\uparrow \downarrow} to on-screen display “Retry” and then press \textit{OK} to repeat the measurement.
\item If the result still differs from the actual connection status after re-measurement or the error message still appears, it is possible that the speakers are not connected properly. Turn the AVR-1910 off, check the speaker connections and repeat the measurement process from the beginning.
\item For instance, If the location or direction of a speaker is altered, the Audyssey Auto Setup should be performed again to ensure the correct EQ solution for the new room configuration.
\end{itemize}
Error Messages

If the Audyssey Auto Setup procedure could not be completed due to speaker installation, the measuring environment, etc., an error message is displayed. If this happens, check the relevant items, be sure to take the necessary measures, then perform the Audyssey Auto Setup procedure over again.

NOTE Be sure to turn the power off before checking the speaker connections.

<table>
<thead>
<tr>
<th>Error messages (examples)</th>
<th>Cause</th>
<th>Measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Caution</td>
<td>Included setup microphone is not connected.</td>
<td>• Connect the included setup microphone to the SETUP MIC jack on the main unit.</td>
</tr>
<tr>
<td></td>
<td>• Not all speakers could be detected.</td>
<td>• Check the speaker connections.</td>
</tr>
<tr>
<td></td>
<td>• The front L speaker was not properly detected.</td>
<td></td>
</tr>
<tr>
<td>Retry Cancel</td>
<td>[ENT]: Retry</td>
<td></td>
</tr>
<tr>
<td>Caution</td>
<td>Too much noise in the room for accurate measurements to be made.</td>
<td>• Either turn off any device generating noise or move it away.</td>
</tr>
<tr>
<td></td>
<td>• Speaker or subwoofer sound is too low for accurate measurements to be made.</td>
<td>• Try again when the surroundings are quieter.</td>
</tr>
<tr>
<td></td>
<td>• Check the speaker installation and the direction in which the speakers are facing.</td>
<td>• Adjust the subwoofer’s volume.</td>
</tr>
<tr>
<td>Retry Cancel</td>
<td>[ENT]: Retry</td>
<td></td>
</tr>
<tr>
<td>Caution</td>
<td>Displayed speaker could not be detected.</td>
<td>• Check the connections of the displayed speaker.</td>
</tr>
<tr>
<td></td>
<td>• The front R speaker were not properly detected.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Only one channel of the surround speakers was detected.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Sound was output from the R channel when only one surround back speaker was connected.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• The surround back, but the surround speaker was not detected.</td>
<td></td>
</tr>
<tr>
<td>Retry Cancel</td>
<td>[ENT]: Retry</td>
<td></td>
</tr>
<tr>
<td>Caution</td>
<td>Displayed speaker connected with the polarities reversed.</td>
<td>• Check the polarities of the displayed speaker.</td>
</tr>
<tr>
<td></td>
<td>• For some speakers, this error message may be displayed even if the speaker is properly connected.</td>
<td>If you are sure that the wiring is correct, press $\Delta \nabla$ to select “Skip,” then press $\Rightarrow$.</td>
</tr>
</tbody>
</table>

3-2. Parameter Check

- Speaker Config. Check
- Distance Check
- Channel Level Check
- Crossover Freq. Check
- EQ Check
- Restore

Press $\Delta \nabla$ to select “Parameter Check”, then press $\Rightarrow$.

This is displayed after the Audyssey Auto Setup procedure is completed.

Check Audyssey Auto Setup Measurement Results (Parameter Check)

1 Press $\Delta \nabla$ to select “Parameter Check”, then press $\Rightarrow$.

“Parameter Check” is displayed on the on-screen display.

2 Use $\Delta \nabla$ to select the item you want to check, then press $\Rightarrow$.

3 Use $\downarrow \uparrow$ to switch the display between the different speakers.

4 Press $\Rightarrow$.

The confirmation screen reappears. Repeat steps 2 and 3.

Even if the settings are changed after the Audyssey Auto Setup procedure, the Audyssey Auto Setup settings can be restored by selecting “Restore” then pressing $\Rightarrow$.

Making the Optimum Settings for the Connected Speakers Automatically (Audyssey Auto Setup)

This is displayed after the Audyssey Auto Setup procedure is completed.

1 Press $\Delta \nabla$ to select “Parameter Check”, then press $\Rightarrow$.

2 Use $\Delta \nabla$ to select the item you want to check, then press $\Rightarrow$.

3 Use $\downarrow \uparrow$ to switch the display between the different speakers.

4 Press $\Rightarrow$.

The confirmation screen reappears. Repeat steps 2 and 3.

Even if the settings are changed after the Audyssey Auto Setup procedure, the Audyssey Auto Setup settings can be restored by selecting “Restore” then pressing $\Rightarrow$.

To perform the Audyssey Auto Setup procedure again

Press $\Delta \nabla$ to select “Retry”, then press $\Rightarrow$.

To cancel Audyssey Auto Setup

Use $\Delta \nabla$ to select “Cancel”, then select “Yes” using $\downarrow \uparrow$.

NOTE Be sure to turn the power off before checking the speaker connections.
Making detailed settings (Manual Setup)

Use this procedure to change the Audyssey Auto Setup settings or to change the various audio, video and display settings. The set can be used without changing these settings. Make these settings as necessary. For a description of “Menu map” and operating instructions, see page 18.

Items that can be set with the Manual Setup procedure

- Making the speaker settings (Speaker Setup) page 25
- Making the HDMI settings (HDMI Setup) page 28
- Making the audio settings (Audio Setup) page 29
- Making the ZONE2 settings (ZONE2 Setup) page 30
- Making other settings (Option Setup) page 30

Examples of Menu Screen Displays

**Speaker Setup**

- 4-1. Speaker Setup
  1. Amp Assign
  2. Speaker Config.
  3. Bass Setting
  4. Distance
  5. Channel Level
  6. Crossover Freq.
  7. Front Sp Setup

**HDMI Setup**

- 4-2. HDMI Setup
  Auto Lip-sync | ON
  HDMI Audio Out | Amp
  HDMI Control | OFF

**Audio Setup**

- 4-3. Audio Setup
  1. EX. IN SW Level
  2. 2ch Direct/Stereo
  3. Auto Surround Mode
  4. EQ Customize

**ZONE2 Setup**

- 4-4. ZONE2 Setup
  Level Lch | 0dB
  Level Rch | 0dB
  Vol. Display | Relative
  Vol. limit | OFF
  Power On Lev | Last
  Mute Lev. | Full

**Option Setup**

- 4-5. Option Setup
  1. Volume Control
  2. Source Delete
  3. On-Screen Display
  4. Quick Select Name
  5. ZONE Rename
  6. Display
  7. Setup Lock

NOTE

Select “Large” or “Small” not according to the physical size of the speaker but according to the low frequency reproduction capabilities based on the frequency setting at “Crossover Frequency” (page 27).

**Making the speaker settings (Speaker Setup)**

Use this procedure to set the speakers manually or if you wish to change the settings made with the Audyssey Auto Setup procedure.

<table>
<thead>
<tr>
<th>Setting items</th>
<th>Setting contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amp Assign</td>
<td>Normal : The signal output to the speaker connected to the SURR. BACK/AMP ASSIGN terminals. ZONE2 : The ZONE2 audio signals are output. Front A Bi-Amp : The bi-amp audio signals are output. Set this for bi-amp playback of the front A speakers. Front B Bi-Amp : The bi-amp audio signals are output. Set this for bi-amp playback of the front B speakers. Front Height : The front height channel audio signals are output.</td>
</tr>
<tr>
<td>Speaker Config.</td>
<td>Front : Set the front speaker size. • Large : Use of a large speaker that can adequately play back low frequencies. • Small : Use of a small speaker that has inadequate playback capacity for low frequencies. If “Subwoofer” is set to “No,” “Front” is automatically set to “Large”. Center : Set the presence and size of the center speaker. • Large : Use of a large speaker that can adequately play back low frequencies. • Small : Use of a small speaker that has inadequate playback capacity for low frequencies. None : Select when a center speaker is not connected.</td>
</tr>
<tr>
<td></td>
<td>Subwoofer : Set the presence of a subwoofer. Yes : Use a subwoofer. No : Select when a subwoofer is not connected.</td>
</tr>
<tr>
<td></td>
<td>“Large” is not displayed when “Front” is set to “Small”. Even if “Center” has been set to “Large”, when “Front” is set to “Small”, the “Center” setting automatically switches to “Small”.</td>
</tr>
</tbody>
</table>

Examples of Menu Screen Displays

- 4-1. Speaker Setup
  1. Amp Assign
  2. Speaker Config.
  3. Bass Setting
  4. Distance
  5. Channel Level
  6. Crossover Freq.
  7. Front Sp Setup

- 4-2. HDMI Setup
  Auto Lip-sync | ON
  HDMI Audio Out | Amp
  HDMI Control | OFF

- 4-3. Audio Setup
  1. EX. IN SW Level
  2. 2ch Direct/Stereo
  3. Auto Surround Mode
  4. EQ Customize

- 4-4. ZONE2 Setup
  Level Lch | 0dB
  Level Rch | 0dB
  Vol. Display | Relative
  Vol. limit | OFF
  Power On Lev | Last
  Mute Lev. | Full

- 4-5. Option Setup
  1. Volume Control
  2. Source Delete
  3. On-Screen Display
  4. Quick Select Name
  5. ZONE Rename
  6. Display
  7. Setup Lock

Remote control operation buttons

- MENU : Displaying the menu
- CANCEL : Cancel the menu
- : Moves the cursor (Up/Down/Left/Right)
- ENTER : Decision the setting
- RETURN : Return to previous menu

See overleaf
### Setting contents

**Setting items**

<table>
<thead>
<tr>
<th><strong>Speaker Config.</strong></th>
<th><strong>Setting contents</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Surround</strong></td>
<td>Set the presence and size of the Surround speakers.</td>
</tr>
<tr>
<td><strong>Large</strong></td>
<td>Use of a large speaker that can adequately play back low frequencies.</td>
</tr>
<tr>
<td><strong>Small</strong></td>
<td>Use of a small speaker that has inadequate playback capacity for low frequencies.</td>
</tr>
<tr>
<td><strong>None</strong></td>
<td>Select when the surround speakers are not connected.</td>
</tr>
</tbody>
</table>

- “Large” is not displayed when “Front” is set to “Small”.

| **S.Back**         | Set the presence, size and number of surround back speakers. |
| **Large**          | Use of a large speaker that can adequately play back low frequencies. |
| **Small**          | Use of a small speaker that has inadequate playback capacity for low frequencies. |
| **None**           | Select when the surround back speakers are not connected. |

- “Large” is not displayed when “Surround” is set to “Small”.

### Making detailed settings (Manual Setup)

**Setting items**

<table>
<thead>
<tr>
<th><strong>Bass Setting</strong></th>
<th><strong>Setting contents</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bass Setting</strong></td>
<td>Make the settings related to playback of low frequency signals (subwoofer and LFE).</td>
</tr>
</tbody>
</table>

- This can be set when “Speaker Config.” – “Subwoofer” (page 25) is set to “Yes”.

<table>
<thead>
<tr>
<th><strong>Subwoofer Mode</strong></th>
<th><strong>Setting contents</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Subwoofer Mode</strong></td>
<td>Select low range signal to be reproduced by subwoofer.</td>
</tr>
<tr>
<td><strong>LFE</strong></td>
<td>Add the low frequency signal of the channel for which the speaker size is set to “Small” to the subwoofer signal and output it.</td>
</tr>
<tr>
<td><strong>LFE+Main</strong></td>
<td>Add the low frequency signal of all channels to the subwoofer signal and output it.</td>
</tr>
</tbody>
</table>

- Play music or a movie source and select the mode offering the strongest bass.
- Select “LFE+Main” if you want the bass signals to always be produced from the subwoofer.

<table>
<thead>
<tr>
<th><strong>LPF for LFE</strong></th>
<th>Set the upper limit of the low frequency signals output from the subwoofer.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>80Hz</strong></td>
<td>90Hz / 100Hz / 110Hz / 120Hz / 150Hz / 200Hz / 250Hz</td>
</tr>
</tbody>
</table>

### Distance

**Setting items**

<table>
<thead>
<tr>
<th><strong>Distance</strong></th>
<th><strong>Setting contents</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Unit</strong></td>
<td>Set the unit of distance.</td>
</tr>
<tr>
<td><strong>Feet</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Meters</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Step</strong></td>
<td>Set the minimum variable width of the distance.</td>
</tr>
<tr>
<td><strong>1ft / 0.1ft</strong></td>
<td></td>
</tr>
<tr>
<td><strong>0.1m / 0.01m</strong></td>
<td></td>
</tr>
</tbody>
</table>

- Use only one surround back speaker. Surround back audio is output from the surround back L terminal.
- “Large” is not displayed when “Surround” is set to “Small”.
- Even if “S.Back” is set to “Large”, the “S.Back” setting is automatically switched to “Small” if “Surround” is set to “Small”.

**NOTE**

- Even when the Surround Back Speaker setting is other than “None”, sound may not be emitted from the surround back speaker, depending on the playback source. In this case, “Surround Back” setting other than “OFF” (page 45).

### Remote control operation buttons

- **MENU**: Displaying the menu
- **CANCEL**: Cancel the menu
- **CURSOR**: Moves the cursor (Up/Down/Left/Right)
- **ENTER**: Decision the setting
- **RETURN**: Return to previous menu
### Channel Level
Set the volume of the test tone to be the same when it is output from each speaker.

#### Setting items
- Test Tone Start: Output test tones.
- FL (Front L)/ C (Center)/ FR (Front R)/ SR (Surround R)/ SBR* (Surround Back R)/ SBL* (Surround Back L)/ SL (Surround L)/ FHL (Front Height L)/ FHR (Front Height R)/ SW (Subwoofer): Select the speaker.

#### Setting contents
- **Channel Level**
- **Test Tone Start:** Output test tones.
  - FL (Front L)/ C (Center)/ FR (Front R)/ SR (Surround R)/ SBR* (Surround Back R)/ SBL* (Surround Back L)/ SL (Surround L)/ FHL (Front Height L)/ FHR (Front Height R)/ SW (Subwoofer): Select the speaker.
- **–12.0dB ~ +12.0dB (0.0dB):** Adjust the volume.
  - When “Channel Level” is adjusted, the adjusted values are set for all the surround modes. To adjust the channel level separately for the different surround modes, use the operation see “Adjust the volume of the different speakers” (page 50).
  - When “Channel Level” is adjusted, the adjusted values are set for all the surround modes. To adjust the channel level separately for the different surround modes, use the operation see “Adjust the volume of the different speakers” (page 50).
  - When “Channel Level” is adjusted, the adjusted values are set for all the surround modes. To adjust the channel level separately for the different surround modes, use the operation see “Adjust the volume of the different speakers” (page 50).
  - When “Channel Level” is adjusted, the adjusted values are set for all the surround modes. To adjust the channel level separately for the different surround modes, use the operation see “Adjust the volume of the different speakers” (page 50).
  - When “Channel Level” is adjusted, the adjusted values are set for all the surround modes. To adjust the channel level separately for the different surround modes, use the operation see “Adjust the volume of the different speakers” (page 50).
- **Speakers set to “None” in the “Speaker Config.” (page 25) settings are not displayed.**
- **When < is pressed while the subwoofer volume is set to “–12dB”, the “Channel Level” setting switches to “OFF”.**
- **If output of the test tones begins while the muting mode is set, the muting mode is canceled.**

#### Default
- **Default:** Reset all channel level settings to factory default.
- **Yes:** Reset to the defaults.
- **No:** Do not reset to the defaults.

### Crossover Frequency
Outputs at below set frequency, each speaker’s bass signal output from the subwoofer. Set this according to the low frequency reproduction capabilities of the speakers you are using.

#### Setting items
- Crossover: Outputs at below set frequency, each speaker’s bass signal output from the subwoofer.
- **40Hz / 60Hz / 80Hz / 90Hz / 100Hz / 110Hz / 120Hz / 150Hz / 200Hz / 250Hz**
- **Advanced:** Set the low frequency signals to be output from the signals of the respective speakers to the subwoofer.
- **Front / Center / Surround / S.Back / Front Height:** Select the speaker.

#### Setting contents
- **Crossover Frequency**
  - **40Hz / 60Hz / 80Hz / 90Hz / 100Hz / 110Hz / 120Hz / 150Hz / 200Hz / 250Hz**
  - **Advanced:** Set the low frequency signals to be output from the signals of the respective speakers to the subwoofer.
  - **Front / Center / Surround / S.Back / Front Height:** Select the speaker.

#### NOTE
- When set to "Custom", **does not operate.**
- **The front speaker setting stored for the “Quick Select” function is given priority.**
## Making the HDMI settings (HDMI Setup)

Default settings are underlined.

**Make settings for HDMI video/audio output.**

<table>
<thead>
<tr>
<th>Setting items</th>
<th>Setting contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto Lip Sync</td>
<td><strong>ON</strong>: Compensated. <strong>OFF</strong>: Not compensated.</td>
</tr>
<tr>
<td>HDMI Audio Out</td>
<td><strong>Amp</strong>: Use speakers connected to AVR-1910 for audio playback. <strong>TV</strong>: Use speakers of TV for audio playback.</td>
</tr>
<tr>
<td>HDMI Control</td>
<td><strong>ON</strong>: Use the HDMI control function. <strong>OFF</strong>: Do not use the HDMI control function.</td>
</tr>
<tr>
<td>Standby Source</td>
<td><strong>Last</strong>: Standby with last used input source during power on. <strong>HDMI1 / HDMI2 / HDMI3 / HDMI4</strong>: The standby mode is set at the input source assigned to the respective.</td>
</tr>
</tbody>
</table>

### Note
- The HDMI control function controls operations of a TV that is compatible with the HDMI control function. Make sure that the TV and HDMI are connected when you perform HDMI control.
- When "Control" is set to "ON", it consumes more standby power.
  - When not using this unit for a long period, we recommend that you press the "STANDBY/ON" button to turn off the power.
  - When the "HDMI Control" setting has been changed, always turn off the power to the connecting devices afterwards and then turn back on.
  - The "HDMI Control" does not work when the power to the equipment is off.
  - When "HDMI Control" is set to "ON", power is supplied constantly to the AC outlet (UNSWITCHED).

### Setting items

<table>
<thead>
<tr>
<th>Setting items</th>
<th>Setting contents</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power Off Control</strong></td>
<td>The power of the AVR-1910 and external device turn off together.</td>
</tr>
<tr>
<td><strong>ON</strong>: Switched. <strong>OFF</strong>: Not switched.</td>
<td></td>
</tr>
<tr>
<td><strong>NOTE</strong></td>
<td>This can be set when &quot;HDMI Control&quot; is set to &quot;ON&quot;.</td>
</tr>
<tr>
<td><strong>NOTE</strong></td>
<td>Please consult the operating instructions for each connected device to check the settings.</td>
</tr>
<tr>
<td><strong>NOTE</strong></td>
<td>For details on the HDMI control function, see &quot;Controlling HDMI-compatible devices from the AVR-1910 (HDMI Control Function)&quot; (page 49).</td>
</tr>
</tbody>
</table>

### Remote control operation buttons

- **MENU**: Displaying the menu
- **RETURN**: Cancel the menu
- **ENTER**: Moves the cursor (Up/Down/Left/Right)
- **RETURN**: Decision the setting
- **RETURN**: Return to previous menu

---

**Making detailed settings (Manual Setup)**

### Setting items

<table>
<thead>
<tr>
<th>Setting items</th>
<th>Setting contents</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power Off Control</strong></td>
<td>The power of the AVR-1910 and external device turn off together.</td>
</tr>
<tr>
<td><strong>ON</strong>: Switched. <strong>OFF</strong>: Not switched.</td>
<td></td>
</tr>
<tr>
<td><strong>NOTE</strong></td>
<td>Please consult the operating instructions for each connected device to check the settings.</td>
</tr>
<tr>
<td><strong>NOTE</strong></td>
<td>For details on the HDMI control function, see &quot;Controlling HDMI-compatible devices from the AVR-1910 (HDMI Control Function)&quot; (page 49).</td>
</tr>
</tbody>
</table>
### Making the audio settings (Audio Setup)

#### Default settings are underlined.

### Make settings for audio playback.

<table>
<thead>
<tr>
<th>Setting items</th>
<th>Setting contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXT.IN SW Level</td>
<td>Set the playback level of the analog subwoofer signals input from the external input terminals (EXT.IN).</td>
</tr>
<tr>
<td>+15dB: This is the recommended level.</td>
<td></td>
</tr>
<tr>
<td>+10dB / +5dB / 0dB: Select the level according to the player being used.</td>
<td></td>
</tr>
</tbody>
</table>

#### 2ch DIRECT/STEREO

Make speaker settings for 2-channel mode playback.

<table>
<thead>
<tr>
<th>Setting items</th>
<th>Setting contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Setting :</td>
<td>Select the method for setting the speakers used in the 2-channel direct and stereo playback modes.</td>
</tr>
<tr>
<td>Basic :</td>
<td>The settings at “Speaker Setup” (page 25) are applied.</td>
</tr>
<tr>
<td>Custom :</td>
<td>Make separate settings for 2-channel mode.</td>
</tr>
<tr>
<td>Front :</td>
<td>Set the front speaker size.</td>
</tr>
<tr>
<td>Large :</td>
<td>Use of a large speaker that can adequately play back low frequencies.</td>
</tr>
<tr>
<td>Small :</td>
<td>Use of a small speaker that has inadequate playback capacity for low frequencies.</td>
</tr>
<tr>
<td>SW :</td>
<td>Set the presence of a subwoofer.</td>
</tr>
<tr>
<td>Yes :</td>
<td>Use a subwoofer.</td>
</tr>
<tr>
<td>No :</td>
<td>Select when a subwoofer is not connected.</td>
</tr>
<tr>
<td>SW Mode :</td>
<td>Select low range signal to be reproduced by subwoofer.</td>
</tr>
<tr>
<td>LFE :</td>
<td>Add the low frequency signal of the channel for which the speaker size is set to “Small” to the subwoofer signal and output it.</td>
</tr>
<tr>
<td>LFE+Main :</td>
<td>Add the low frequency signal of all channels to the subwoofer signal and output it.</td>
</tr>
<tr>
<td>Crossover :</td>
<td>Outputs at below set frequency, each speaker’s bass signal output from the subwoofer.</td>
</tr>
<tr>
<td>40Hz / 60Hz / 80Hz / 90Hz / 100Hz / 110Hz / 120Hz / 150Hz / 200Hz / 250Hz</td>
<td></td>
</tr>
<tr>
<td>Distance FL / Distance FR :</td>
<td>Select the speaker you want to set, and set the CH Level. Set the value that is closest to the measured distance.</td>
</tr>
<tr>
<td>0.0ft – 60.0ft (12.0ft) / 0.00m – 18.00m (3.6m)</td>
<td></td>
</tr>
<tr>
<td>CH Level FL/ CH Level FL FR :</td>
<td>Select the speaker you want to set, and set the CH Level. Adjust the level of each channel.</td>
</tr>
<tr>
<td>–12.0dB ~ +12.0dB(0.0dB)</td>
<td></td>
</tr>
</tbody>
</table>

### Setting items

<table>
<thead>
<tr>
<th>Setting items</th>
<th>Setting contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto Surround Mode</td>
<td>Make setting for memorizing surround mode setting for each input signal type.</td>
</tr>
<tr>
<td>ON : Memorize settings. Most recently stored surround mode is automatically selected.</td>
<td></td>
</tr>
<tr>
<td>OFF : Do not memorize settings. Surround mode does not change according to input signal.</td>
<td></td>
</tr>
<tr>
<td>The auto surround mode function lets you store in the memory the surround mode last used for playing the four types of input signals listed below.</td>
<td></td>
</tr>
<tr>
<td>1. Analog and PCM 2-channel signals</td>
<td></td>
</tr>
<tr>
<td>2. Dolby Digital and DTS 2-channel signals</td>
<td></td>
</tr>
<tr>
<td>3. Dolby Digital and DTS multi-channel signals</td>
<td></td>
</tr>
<tr>
<td>4. Multi-channel signals other than Dolby Digital and DTS (PCM, etc.)</td>
<td></td>
</tr>
</tbody>
</table>

#### NOTE

When playing in the PURE DIRECT mode, the surround mode does not change even if the input signal is changed.

#### EQ Customize

Set so that unused equalizer settings are not displayed when ☐ is used.

#### Audyssey Byp. L/R / Audyssey Flat / Manual

- Used
- Not Used

#### NOTE

- Set so that the “Audyssey Byp. L/R” and “Audyssey Flat” settings can be made when the Audyssey Auto Setup procedure is performed.
- Equalizer settings for which “Not Used” is set with the Quick Select function cannot be stored and called out.
### Making the ZONE2 settings (ZONE2 Setup)

Default settings are underlined.

Make settings for audio playback in a ZONE2 system. “ZONE2 Setup” is displayed when ZONE2 is selected with “Amp Assign” (page 25).

<table>
<thead>
<tr>
<th>Setting items</th>
<th>Setting contents</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Level Lch</strong></td>
<td>Adjust the left channel output level.</td>
</tr>
<tr>
<td><strong>Level Rch</strong></td>
<td>Adjust the right channel output level.</td>
</tr>
<tr>
<td><strong>Volume Display</strong></td>
<td>Set the ZONE2 volume display method.</td>
</tr>
<tr>
<td><strong>Vol.Limit</strong></td>
<td>Make a setting for maximum volume.</td>
</tr>
<tr>
<td><strong>Power On Level</strong></td>
<td>Define the volume setting that is active when the power is turned on.</td>
</tr>
<tr>
<td><strong>Mute Level</strong></td>
<td>Set the amount of attenuation when muting is on.</td>
</tr>
</tbody>
</table>

The volume is displayed using the display method set at “Volume Display” (page 30).
Set the main volume at “Volume Control” (page 30).

---

### Making other settings (Option Setup)

Default settings are underlined.

<table>
<thead>
<tr>
<th>Setting items</th>
<th>Setting contents</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Volume Control</strong></td>
<td>Set the MAIN ZONE volume setting.</td>
</tr>
<tr>
<td><strong>Volume Display</strong></td>
<td>Set the volume display method.</td>
</tr>
<tr>
<td>• Relative: The volume is displayed within the range of – – – dB (Minimum), –80 dB ~ +18 dB.</td>
<td></td>
</tr>
<tr>
<td>• Absolute: The volume is displayed within the range of 0, 1 ~ 99.</td>
<td></td>
</tr>
<tr>
<td><strong>Vol.Limit</strong></td>
<td>Make a setting for maximum volume.</td>
</tr>
<tr>
<td>• OFF: Do not set a maximum volume.</td>
<td></td>
</tr>
<tr>
<td>• –20dB(61) / –10dB(71) / 0dB(81)</td>
<td></td>
</tr>
<tr>
<td><strong>Power On Level</strong></td>
<td>Define the volume setting that is active when the power is turned on.</td>
</tr>
<tr>
<td>• Last: Use the memorized setting from the last session.</td>
<td></td>
</tr>
<tr>
<td>• – – –: Always use the muting on condition when power is turned on.</td>
<td></td>
</tr>
<tr>
<td>• –80dB(1) ~ +18dB(99): The volume is adjusted to the set level.</td>
<td></td>
</tr>
<tr>
<td><strong>Mute Level</strong></td>
<td>Set the amount of attenuation when muting is on.</td>
</tr>
<tr>
<td>• Full: The sound is cut off entirely.</td>
<td></td>
</tr>
<tr>
<td>• –40dB: The sound is attenuated by 40 dB.</td>
<td></td>
</tr>
<tr>
<td>• –20dB: The sound is attenuated by 20 dB.</td>
<td></td>
</tr>
<tr>
<td><strong>Source Delete</strong></td>
<td>Remove input sources that are not used from the display.</td>
</tr>
<tr>
<td>TUNER / CD / DVD / HDP / TV / SAT/CBL / VCR / DVR / V.AUX / SIRIUS: Select the sources you do not want to use.</td>
<td></td>
</tr>
<tr>
<td>• ON: Use this source.</td>
<td></td>
</tr>
<tr>
<td>• Delete: Do not use this source.</td>
<td></td>
</tr>
<tr>
<td><strong>NOTE</strong></td>
<td></td>
</tr>
<tr>
<td>• The currently selected input source cannot be set.</td>
<td></td>
</tr>
<tr>
<td>• Input sources set to “Delete” cannot be selected using .</td>
<td></td>
</tr>
<tr>
<td><strong>On-Screen Display</strong></td>
<td>Make the settings related to displays on the TV screen.</td>
</tr>
<tr>
<td><strong>Screensaver</strong></td>
<td>Make screensaver settings.</td>
</tr>
<tr>
<td>• ON: The screen switches to the screensaver if no operation is performed for approximately 3 minutes while a menu is displayed or while an iPod screen is displayed. When you press , the screen saver is cancelled and the screen before that screen saver started is displayed.</td>
<td></td>
</tr>
<tr>
<td>• OFF: Turn the screensaver function off.</td>
<td></td>
</tr>
<tr>
<td><strong>Text</strong></td>
<td>Set the text name when operation is performed to switch the surround mode, input mode, etc.</td>
</tr>
<tr>
<td>• ON: Turn display on.</td>
<td></td>
</tr>
<tr>
<td>• OFF: Turn display off.</td>
<td></td>
</tr>
<tr>
<td><strong>Master Volume</strong></td>
<td>Master volume display during adjustment.</td>
</tr>
<tr>
<td>• Bottom: Displayed at the bottom of the screen.</td>
<td></td>
</tr>
<tr>
<td>• Top: Displayed at the top of the screen.</td>
<td></td>
</tr>
<tr>
<td>• OFF: Turn display off.</td>
<td></td>
</tr>
</tbody>
</table>
### Quick Select Name

Change the Quick Select name.

<table>
<thead>
<tr>
<th>Setting items</th>
<th>Setting contents</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>On-Screen Display</strong></td>
<td>Make the settings related to displays on the TV screen.</td>
</tr>
<tr>
<td><strong>Tuner Information</strong></td>
<td>This sets the time the on-screen display is displayed when a tuner operation is performed.</td>
</tr>
<tr>
<td>• <strong>Always</strong> : Show display continuously.</td>
<td></td>
</tr>
<tr>
<td>• <strong>30sec</strong> : Show display for 30 seconds after operation.</td>
<td></td>
</tr>
<tr>
<td>• <strong>10sec</strong> : Show display for 10 seconds after operation.</td>
<td></td>
</tr>
<tr>
<td>• <strong>OFF</strong> : Turn display off.</td>
<td></td>
</tr>
<tr>
<td><strong>iPod Information</strong></td>
<td>This sets the time the on-screen display is displayed when an iPod operation is performed.</td>
</tr>
<tr>
<td>• <strong>Always</strong> : Show display continuously.</td>
<td></td>
</tr>
<tr>
<td>• <strong>30sec</strong> : Show display for 30 seconds after operation.</td>
<td></td>
</tr>
<tr>
<td>• <strong>10sec</strong> : Show display for 10 seconds after operation.</td>
<td></td>
</tr>
<tr>
<td>• <strong>OFF</strong> : Turn display off.</td>
<td></td>
</tr>
</tbody>
</table>

**Quick Select Name**  
Change the Quick Select name.

**Rename Label** : Change the display name of the selected “Quick Select” setting.

1. Use \( \Delta \) to select the name of the Quick Select setting you want to change, then press \( \text{Setup Lock} \).  
2. Use \( \Delta \) to set the cursor to the character you want to change.  
3. Use \( \Delta \) to change the character, then press \( \text{Setup Lock} \).  

- Up to 16 characters can be input.  
- The input character type can be switched by pressing \( \text{Setup Lock} \) while the display name is being changed.  
- The types of characters that can be input are as shown below.

- **[Capital letters]** A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
- **[Small letters]** a b c d e f g h i j k l m n o p q r s t u v w x y z
- **[Symbols]** ‘ ( ) * + - ./ ; <= > ? [ ]
- **[Numbers]** 0 1 2 3 4 5 6 7 8 9

4. Repeat steps 2 and 3 to change the display name.

**Template** : The display name can be changed by selecting “Operation” and “Device Name” from the previously set templates.

1. Use \( \Delta \) to select the name of the Quick Select setting you want to change, then press \( \text{Setup Lock} \).  
2. Use \( \Delta \) to select “Template”, then press \( \text{Setup Lock} \).  
3. Use \( \Delta \) to select “Operation”, then press \( \text{Setup Lock} \).  

- **Watch** / **Listen to** / **Play** / **For**
- **DVD** / **Blu-Ray** / **HD TV** / **HD PVR** / **Cable TV** / **Satellite** / **VCR** / **DVR** / **iPod** / **V AUX** / **LD** / **Movie** (When “Operation” is selected to “Watch”)  
- **CD** / **TUNER** / **SIRIUS** / **iPod** / **MD** / **TAPE** / **MUSIC** (When “Operation” is selected to “Listen to”)  
- **PC** / **Game** (When “Operation” is selected to “Play”)  
- **Father** / **Mother** / **Son** / **Daughter** / **Brother** / **Sister** / **Grandfather** / **Grandmother** / **Me** (When “Operation” is selected to “For”)  

---

### Zone Rename

Rename the display names of the different zones as desired.

1. Use \( \Delta \) to select the zone name you want to change, then press \( \text{Setup Lock} \).  
2. Use \( \Delta \) to set the cursor to the character you want to change.  
3. Use \( \Delta \) to change the character, then press \( \text{Setup Lock} \).  

- Up to 10 characters can be input.  
- The input character type can be switched by pressing \( \text{Setup Lock} \) while the display name is being changed.  
- The types of characters that can be input are as shown below.

- **[Capital letters]** A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
- **[Small letters]** a b c d e f g h i j k l m n o p q r s t u v w x y z
- **[Symbols]** ‘ ( ) * + - ./ ; <= > ? [ ]
- **[Numbers]** 0 1 2 3 4 5 6 7 8 9

4. Repeat steps 2 and 3 to change the display name.

### Display

Adjust display brightness of the receiver.

- **Bright** : Normal display brightness.  
- **Dim** : Reduced display brightness.  
- **Dark** : Very low display brightness.  
- **OFF** : Turns the display off.

Switching is also possible by pressing \( \text{Setup Lock} \) on the main unit.

### Setup Lock

Protect settings from inadvertent change.

- **ON** : Turn protection on.  
- **OFF** : Turn protection off.

When “Setup Lock” is set to “ON”, the settings listed below can no longer be changed. Also, “SETUP LOCKED!” is displayed if you attempt to operate related settings.

- **RESTORER**  
- **Dynamic Volume**  
- **MultEQ**  
- **Channel Level**  
- **Dynamic EQ**  
- **Audio Delay**
Making the input settings (Input Setup)

Make the settings related to the currently selected input source. Before displaying the menu screen, press \[ \text{INPUT} \] to switch to the input source to be set. The items that can be set differ according to the selected input source. The set can be used without changing these settings. Make these settings as necessary. For a description of “Menu map” and operating instructions, see page 18.

Items that can be set with the Input Setup procedure

- Changing the Input Sources Assigned to the Input Terminals (Assign) \[ \text{ page 33} \]
- Making the video settings (Video) \[ \text{ page 34} \]
- Changing the Input Source’s Input Mode and Decoding mode (Input mode) \[ \text{ page 34} \]
- Changing the Input Source’s Display Name (Rename) \[ \text{ page 35} \]
- Correcting the Input Source’s Playback Level (Source Level) \[ \text{ page 35} \]
- Setting the iPod Playback Mode (iPod Playback Mode) \[ \text{ page 35} \]
- Changing the Input Sources Assigned to the Input Terminals (Assign) \[ \text{ page 33} \]
- Making the video settings (Video) \[ \text{ page 34} \]
- Changing the Input Source’s Input Mode and Decoding mode (Input mode) \[ \text{ page 34} \]
- Changing the Input Source’s Display Name (Rename) \[ \text{ page 35} \]
- Correcting the Input Source’s Playback Level (Source Level) \[ \text{ page 35} \]
- Setting the iPod Playback Mode (iPod Playback Mode) \[ \text{ page 35} \]
- Changing the Input Sources Assigned to the Input Terminals (Assign) \[ \text{ page 33} \]
- Making the video settings (Video) \[ \text{ page 34} \]
- Changing the Input Source’s Input Mode and Decoding mode (Input mode) \[ \text{ page 34} \]
- Changing the Input Source’s Display Name (Rename) \[ \text{ page 35} \]
- Correcting the Input Source’s Playback Level (Source Level) \[ \text{ page 35} \]
- Setting the iPod Playback Mode (iPod Playback Mode) \[ \text{ page 35} \]
- Changing the Input Sources Assigned to the Input Terminals (Assign) \[ \text{ page 33} \]
- Making the video settings (Video) \[ \text{ page 34} \]
- Changing the Input Source’s Input Mode and Decoding mode (Input mode) \[ \text{ page 34} \]
- Changing the Input Source’s Display Name (Rename) \[ \text{ page 35} \]
- Correcting the Input Source’s Playback Level (Source Level) \[ \text{ page 35} \]
- Setting the iPod Playback Mode (iPod Playback Mode) \[ \text{ page 35} \]
- Changing the Input Sources Assigned to the Input Terminals (Assign) \[ \text{ page 33} \]
- Making the video settings (Video) \[ \text{ page 34} \]
- Changing the Input Source’s Input Mode and Decoding mode (Input mode) \[ \text{ page 34} \]
- Changing the Input Source’s Display Name (Rename) \[ \text{ page 35} \]
- Correcting the Input Source’s Playback Level (Source Level) \[ \text{ page 35} \]
- Setting the iPod Playback Mode (iPod Playback Mode) \[ \text{ page 35} \]
- Changing the Input Sources Assigned to the Input Terminals (Assign) \[ \text{ page 33} \]
- Making the video settings (Video) \[ \text{ page 34} \]
- Changing the Input Source’s Input Mode and Decoding mode (Input mode) \[ \text{ page 34} \]
- Changing the Input Source’s Display Name (Rename) \[ \text{ page 35} \]
- Correcting the Input Source’s Playback Level (Source Level) \[ \text{ page 35} \]
- Setting the iPod Playback Mode (iPod Playback Mode) \[ \text{ page 35} \]
- Changing the Input Sources Assigned to the Input Terminals (Assign) \[ \text{ page 33} \]
- Making the video settings (Video) \[ \text{ page 34} \]
- Changing the Input Source’s Input Mode and Decoding mode (Input mode) \[ \text{ page 34} \]
- Changing the Input Source’s Display Name (Rename) \[ \text{ page 35} \]
- Correcting the Input Source’s Playback Level (Source Level) \[ \text{ page 35} \]
- Setting the iPod Playback Mode (iPod Playback Mode) \[ \text{ page 35} \]
- Changing the Input Sources Assigned to the Input Terminals (Assign) \[ \text{ page 33} \]
- Making the video settings (Video) \[ \text{ page 34} \]
- Changing the Input Source’s Input Mode and Decoding mode (Input mode) \[ \text{ page 34} \]
- Changing the Input Source’s Display Name (Rename) \[ \text{ page 35} \]
- Correcting the Input Source’s Playback Level (Source Level) \[ \text{ page 35} \]
- Setting the iPod Playback Mode (iPod Playback Mode) \[ \text{ page 35} \]
- Changing the Input Sources Assigned to the Input Terminals (Assign) \[ \text{ page 33} \]
- Making the video settings (Video) \[ \text{ page 34} \]
- Changing the Input Source’s Input Mode and Decoding mode (Input mode) \[ \text{ page 34} \]
- Changing the Input Source’s Display Name (Rename) \[ \text{ page 35} \]
- Correcting the Input Source’s Playback Level (Source Level) \[ \text{ page 35} \]
- Setting the iPod Playback Mode (iPod Playback Mode) \[ \text{ page 35} \]
- Changing the Input Sources Assigned to the Input Terminals (Assign) \[ \text{ page 33} \]
- Making the video settings (Video) \[ \text{ page 34} \]
- Changing the Input Source’s Input Mode and Decoding mode (Input mode) \[ \text{ page 34} \]
- Changing the Input Source’s Display Name (Rename) \[ \text{ page 35} \]
- Correcting the Input Source’s Playback Level (Source Level) \[ \text{ page 35} \]
- Setting the iPod Playback Mode (iPod Playback Mode) \[ \text{ page 35} \]
- Changing the Input Sources Assigned to the Input Terminals (Assign) \[ \text{ page 33} \]
- Making the video settings (Video) \[ \text{ page 34} \]
- Changing the Input Source’s Input Mode and Decoding mode (Input mode) \[ \text{ page 34} \]
- Changing the Input Source’s Display Name (Rename) \[ \text{ page 35} \]
- Correcting the Input Source’s Playback Level (Source Level) \[ \text{ page 35} \]
- Setting the iPod Playback Mode (iPod Playback Mode) \[ \text{ page 35} \]
### Changing the Input Sources Assigned to the Input Terminals (Assign)

**Setting items**
- **Input Assign (Component)**: Assign input sources to input connectors.

**Setting contents**
- **Input source**
  - **HDMI**: The input sources are assigned to the HDMI input terminals as shown below.
    - **HDMI1 / HDMI2 / HDMI3 / HDMI4**: None
    - **None**: Do not assign an HDMI input terminal to the currently selected input source.

  * Upon purchase, the settings of the different input sources are as shown below.

<table>
<thead>
<tr>
<th>Input source</th>
<th>DVD</th>
<th>HDP</th>
<th>TV</th>
<th>SAT/CBL</th>
<th>VCR</th>
<th>DVR</th>
<th>V.AUX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Default setting</td>
<td>HDMI1</td>
<td>HDMI2</td>
<td>None</td>
<td>HDMI3</td>
<td>None</td>
<td>HDMI4</td>
<td>None</td>
</tr>
</tbody>
</table>

- **iPod Dock**: Change the input source to which the Control Dock for iPod is assigned.

  - **Assign**: Assign the currently selected input source to the Control Dock for iPod input.
  - **None**: Do not assign the currently selected input source to the Control Dock for iPod input.

  * With the default settings, the control dock for iPod can be used connected to the VCR (iPod) connector.

  * Even if iPod Dock is set to “Assign”, if AVR-1910 and control dock for iPod are not connected, the input is used as the normal input source.

### Making the input settings (Input Setup)

**Setting items**
- **Input Assign (Component)**: Assign input sources to input connectors.

<table>
<thead>
<tr>
<th>Component</th>
<th>Setting contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>DVD</td>
<td>HDMI1, HDMI2, HDMI3, HDMI4</td>
</tr>
<tr>
<td>HDP</td>
<td>None</td>
</tr>
<tr>
<td>TV</td>
<td>None</td>
</tr>
<tr>
<td>SAT/CBL</td>
<td>None</td>
</tr>
<tr>
<td>VCR</td>
<td>None</td>
</tr>
<tr>
<td>DVR</td>
<td>None</td>
</tr>
<tr>
<td>V.AUX</td>
<td>None</td>
</tr>
</tbody>
</table>

**Input source**
- **Default setting**: COMP1, None, None, None, None, COMP2, None

**iPod Dock**
- **Assign**: Assign the currently selected input source to the Control Dock for iPod input.
- **None**: Do not assign the currently selected input source to the Control Dock for iPod input.

**NOTE**
- When “HDMI Control” is set to “ON”, HDMI cannot be assigned to “TV” at the “HDMI” settings (page 28).

### Input Assign (Digital)

**Assign input sources to input connectors.**

- **Digital**: The input sources are assigned to the digital audio input terminals as shown below.
  - **C1 (COAX1) / C2 (COAX2) / O1 (OPT1) / O2 (OPT2)**
  - **None**: Do not assign a digital input terminal to the currently selected input source.

  * Upon purchase, the settings of the different input sources are as shown below.

<table>
<thead>
<tr>
<th>Input source</th>
<th>DVD</th>
<th>HDP</th>
<th>TV</th>
<th>SAT/CBL</th>
<th>VCR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Default setting</td>
<td>COAX1</td>
<td>None</td>
<td>OPT1</td>
<td>COAX2</td>
<td>None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Input source</th>
<th>DVR</th>
<th>V.AUX</th>
<th>CD</th>
<th>SIRIUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Default setting</td>
<td>OPT2</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>
**Making the video settings (Video)**

The items that can be set depend on the input source and the “Assign” setting.

<table>
<thead>
<tr>
<th>Setting items</th>
<th>Setting contents</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Video Select</strong></td>
<td>Switch video input source while listening to audio signal.</td>
</tr>
<tr>
<td><strong>Source</strong></td>
<td>Play the picture and sound of the input source.</td>
</tr>
<tr>
<td><strong>DVD / HDP / TV / SAT/CBL / VCR / DVR / V.AUX</strong></td>
<td>Select video input source to view. This can be set for individual input sources.</td>
</tr>
<tr>
<td><strong>NOTE</strong></td>
<td>- It is not possible to select HDMI input signals.</td>
</tr>
<tr>
<td></td>
<td>- When playing HDMI video input signals, the analog video signal of another input source cannot be selected for the HDMI video output.</td>
</tr>
<tr>
<td></td>
<td>- Input sources for which “Delete” is selected at “Source Delete” (page 30) cannot be selected.</td>
</tr>
<tr>
<td></td>
<td>- Input sources for which “None” is selected at “Assign” (page 33) cannot be selected.</td>
</tr>
<tr>
<td></td>
<td>• This can also be set by pressing .</td>
</tr>
<tr>
<td></td>
<td>• To cancel, press to select “Source”.</td>
</tr>
</tbody>
</table>

| **i/p Scaler** | The input source’s resolution is converted to the resolution set at “Resolution.” |
| **Resolution** | Set the output resolution. Resolution A : Analog Video Resolution H : HDMI |
| **Progressive Mode** | Select optimum progressive mode for video material. |
| **Aspect** | Set the aspect ratio of the video signal output from the HDMI terminal. |

**Default settings are underlined.**

**Setting items**

**Setting contents**

**Video Select**

- **Source**
  - DVD / HDP / TV / SAT/CBL / VCR / DVR / V.AUX: Select video input source to view. This can be set for individual input sources.

**NOTE**

- It is not possible to select HDMI input signals.
- When playing HDMI video input signals, the analog video signal of another input source cannot be selected for the HDMI video output.
- Input sources for which “Delete” is selected at “Source Delete” (page 30) cannot be selected.
- Input sources for which “None” is selected at “Assign” (page 33) cannot be selected.

**i/p Scaler**

- **Resolution**
  - DVD / HDP / TV / SAT/CBL / VCR / DVR / V.AUX: Select video input sources.

**Progressive Mode**

- **Resolution**
  - DVD / HDP / TV / SAT/CBL / VCR / DVR / V.AUX: Select video input sources.

**Aspect**

- **Resolution**
  - DVD / HDP / TV / SAT/CBL / VCR / DVR / V.AUX: Select video input sources.

**Changing the Input Source’s Input Mode and Decoding mode (Input Mode)**

The selectable input modes depend on the input source and “Assign” setting (page 33 “Changing the input sources assigned to the input terminals”).

**Setting items**

**Setting contents**

**Input Mode**

- **Auto**: Automatically detect input signal and perform playback. HDMI: Play only signals from HDMI input. (Excluding CD and SIRIUS) Digital: Play only signals from digital input. Analog: Play only signals from analog input. EXT. IN: Play only signals from EXT. IN input.

**Input source**

- DVD, HDP, TV, SAT/CBL, VCR

**Default setting**

- Auto, HDMI, Digital, Auto, Analog

**Input source**

- DVR, V.AUX, CD, TUNER

**Default setting**

- Auto, Analog, Analog, Analog

**NOTE**

- The “HDMI” settings are made for input sources for which HDMI input terminals are assigned at “Assign” (page 33).
- The “Digital” settings are made for input sources for which digital input terminals are assigned at “Assign” (page 33).
- When a digital signal is properly input, the “Digital” indicator lights on the display. If the “Digital” indicator does not light, check the digital input connector assignment and the connections.
- The surround mode cannot be set if the input mode is set to “EXT. IN.”
- This can also be set by pressing . Each time you press the button, the input mode display will change.
Making the input settings (Input Setup)

<table>
<thead>
<tr>
<th>Setting items</th>
<th>Setting contents</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Decode Mode</strong></td>
<td>Set the input source’s decoding mode.</td>
</tr>
<tr>
<td>Auto</td>
<td>Detect type of digital input signal and decode and play automatically.</td>
</tr>
<tr>
<td>PCM</td>
<td>Decode and play only PCM input signals.</td>
</tr>
<tr>
<td>DTS</td>
<td>Decode and play only DTS input signals.</td>
</tr>
<tr>
<td>• This can be set for input sources for which “HDMI” or “Digital” is assigned at “Assign” (page 33).</td>
<td></td>
</tr>
<tr>
<td>• Normally set this to “Auto”.</td>
<td></td>
</tr>
</tbody>
</table>

### Changing the Input Source’s Display Name (Rename)

Use this procedure to change the display name of the currently selected input source.

<table>
<thead>
<tr>
<th>Setting items</th>
<th>Setting contents</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Rename</strong></td>
<td>Change the input source’s display name to the desired name.</td>
</tr>
<tr>
<td>1. Use &lt; or &gt; to set the cursor to the character you want to change.</td>
<td></td>
</tr>
<tr>
<td>2. Use △ or ▽ to change the character, then press ENTER.</td>
<td></td>
</tr>
<tr>
<td>• Up to 8 characters can be input.</td>
<td></td>
</tr>
<tr>
<td>• The input character type can be switched by pressing α while the display name is being changed.</td>
<td></td>
</tr>
<tr>
<td>• The types of characters that can be input are as shown below.</td>
<td></td>
</tr>
</tbody>
</table>

[Small letters] a b c d e f g h i j k l m n o p q r s t u v w x y z
[Symbols] ’ ( ) * + – . / : ; < > ? [ ]
[Numbers] 0123456789 (space)

### Correcting the Input Source’s Playback Level (Source Level)

Use this procedure to correct the playback level of the currently selected input source’s audio input. Set this if there are differences in the input volume levels between the different sources. The analog input level and digital input level can be corrected separately.

<table>
<thead>
<tr>
<th>Setting items</th>
<th>Setting contents</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Source Level (Analog)</strong></td>
<td>Correct the playback level of the analog audio input.</td>
</tr>
<tr>
<td>–12dB ~ +12dB (0dB)</td>
<td></td>
</tr>
<tr>
<td><strong>Source Level (Digital)</strong></td>
<td>Correct the playback level of the digital audio input.</td>
</tr>
<tr>
<td>–12dB ~ +12dB (0dB)</td>
<td></td>
</tr>
</tbody>
</table>

### Setting the iPod Playback Mode (iPod Playback Mode)

This can be selected for input sources for which “Assign” is assigned at the “iPod Dock” (page 33) setting.

<table>
<thead>
<tr>
<th>Setting items</th>
<th>Setting contents</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Repeat</strong></td>
<td>Make settings for repeat mode.</td>
</tr>
<tr>
<td>All</td>
<td>Repeat all songs.</td>
</tr>
<tr>
<td>One</td>
<td>Repeat the current song.</td>
</tr>
<tr>
<td>OFF</td>
<td>Cancel repeat mode.</td>
</tr>
<tr>
<td><strong>Shuffle</strong></td>
<td>Make settings for shuffle mode.</td>
</tr>
<tr>
<td>Songs</td>
<td>Shuffle all songs.</td>
</tr>
<tr>
<td>Albums</td>
<td>Shuffle songs from current album only.</td>
</tr>
<tr>
<td>OFF</td>
<td>Cancel shuffle mode.</td>
</tr>
</tbody>
</table>
Making the input settings (Input Setup)

### Presetting Radio Stations (Auto Preset)

<table>
<thead>
<tr>
<th>Setting items</th>
<th>Setting contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto Preset</td>
<td>Use the auto preset function to program radio stations.</td>
</tr>
<tr>
<td></td>
<td>This can be set when the source is set to <strong>TUNER</strong>.</td>
</tr>
<tr>
<td></td>
<td><strong>Start</strong> : Start the auto preset process.</td>
</tr>
<tr>
<td></td>
<td>If an FM station cannot be preset automatically, select the desired station by tuning it in manually, then preset it manually.</td>
</tr>
</tbody>
</table>

### Assign Name to a Preset Memory (Preset Name)

<table>
<thead>
<tr>
<th>Setting items</th>
<th>Setting contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preset Name</td>
<td>Assign name to a preset memory.</td>
</tr>
<tr>
<td></td>
<td>This can be set when the source is set to <strong>TUNER</strong>.</td>
</tr>
<tr>
<td></td>
<td>1. Use <strong>△</strong> or <strong>▽</strong> to select the preset channel name you want to change, then press <strong>ENT</strong>.</td>
</tr>
<tr>
<td></td>
<td>2. Use <strong>&lt;</strong> or <strong>&gt;</strong> to set the cursor to the character you want to change.</td>
</tr>
<tr>
<td></td>
<td>3. Use <strong>△</strong> or <strong>▽</strong> to change the character, then press <strong>ENT</strong>.</td>
</tr>
<tr>
<td></td>
<td><strong>•</strong> Up to 8 characters can be input.</td>
</tr>
<tr>
<td></td>
<td><strong>•</strong> The input character type can be switched by pressing <strong>SEL</strong> while the display name is being changed.</td>
</tr>
<tr>
<td></td>
<td><strong>•</strong> The types of characters that can be input are as shown below.</td>
</tr>
<tr>
<td></td>
<td><strong>[Capital letters]</strong> ABCDEFGHIJKLMNOPQRSTUVWXYZ</td>
</tr>
<tr>
<td></td>
<td><strong>[Small letters]</strong> abcdefghijklmnopqrstuvwxyz</td>
</tr>
<tr>
<td></td>
<td><strong>[Symbols]</strong> ' ( ) + – . / : ; &lt; = &gt; ? [ ]</td>
</tr>
<tr>
<td></td>
<td><strong>[Numbers]</strong> 0123456789 (space)</td>
</tr>
<tr>
<td></td>
<td>4. Repeat steps 2 and 3 to change the display name.</td>
</tr>
</tbody>
</table>

### Setting the Preset Channels to be Skipped (Preset Skip)

<table>
<thead>
<tr>
<th>Setting items</th>
<th>Setting contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preset Skip</td>
<td>Set the preset memories that you do not want to display when tuning.</td>
</tr>
<tr>
<td></td>
<td>This can be set when the source is set to <strong>TUNER</strong> or <strong>SIRIUS</strong>.</td>
</tr>
<tr>
<td></td>
<td><strong>A ~ G</strong> : Select the preset channel(s) you do not want to display.</td>
</tr>
<tr>
<td></td>
<td><strong>ON</strong> : Display this number.</td>
</tr>
<tr>
<td></td>
<td><strong>Skip</strong> : Skip this number.</td>
</tr>
<tr>
<td></td>
<td>If you set “Block Presets” to “Skip”, you can skip the preset memory blocks (A to G).</td>
</tr>
</tbody>
</table>

Remote control operation buttons

- **MENU** : Displaying the menu
- **EXIT** : Cancel the menu
- **SELECT** : Moves the cursor (Up/Down/Left/Right)
- **ENTER** : Decision the setting
- **RETURN** : Return to previous menu
**Setting Radio Reception Restrictions (Parental Lock)**

**Setting items** | **Setting contents**
---|---
**Lock Setting**<br>Set the channel radio reception limits. | This can be set when the source is set to **SIRIUS**.
1. Press \(\checkmark\).
2. Using \(\Delta \downarrow \downarrow \uparrow\), input the password (4 digits number) and press \(\checkmark\).
3. Select channel by pressing \(\Delta\), and set the lock by pressing \(\Delta \downarrow\).
   - **Unlock**: Do not lock selected channel(s).
   - **Lock**: Lock selected channel(s).
   ※ When a Parental Locked channel is tuned, “Code : [   ]” is displayed, then input the password.

   ▶ The default password is “0000”.
   ▶ If the password is wrong, “Incorrect Code” is displayed. Input the correct password.
   ▶ While listening to the channel being played, you can also set parental lock (page 41).

**Edit Lock Code**<br>Change the password. | This can be set when the source is set to **SIRIUS**.
1. Press \(\checkmark\).
2. Input “Current Code” (4 digits) using \(\Delta \downarrow \downarrow \uparrow\), and press \(\checkmark\).
3. Input “New Code” (4 digits) using \(\Delta \downarrow \downarrow \uparrow\), and press \(\checkmark\).
4. Input “Repeat Code” (4 digits) again using \(\Delta \downarrow \downarrow \uparrow\), and press \(\checkmark\). If the correct password is input, “Completed” is displayed, and the new password is modified.

   ▶ If the “Current Code” is incorrectly input, “Incorrect Code” is displayed, and proceed again from step 1.
   ▶ If the password input is 3 digits or less, “Enter 4-digit” is displayed, and input again with a 4 digit password.
   ▶ If the new password is not correctly input, “Code don’t Match” is displayed and the password does not change.
   ▶ The password cannot be cleared even if the operation to reset the unit is performed. We recommend writing down the password so as not to forget it.

---

**Check the SIRIUS Radio Reception Sensitivity (Antenna Aiming)**

**Setting items** | **Setting contents**
---|---
**Antenna Aiming**<br>Check the SIRIUS radio reception sensitivity. | This can be set when the source is set to **SIRIUS**.
**Satellite**: Indicate satellite signal strength.
**Terrestrial**: Indicate terrestrial signal strength.
**SIRIUS Antenna Display**
**Condition**
<table>
<thead>
<tr>
<th><strong>Display</strong></th>
<th><strong>Condition</strong></th>
</tr>
</thead>
</table>
\(\Rightarrow\) | Signal strength is excellent |
\(\Rightarrow\) | Signal strength is good |
\(\Rightarrow\) | Signal strength is weak |
| No signal | |

---

**Remote control operation buttons**

- **MENU**: Displaying the menu
- **RETURN**: Return to previous menu
- **Enter**: Decision the setting
- **Cancel the menu**: Moves the cursor (Up/Down/Left/Right)
Playing Blu-ray Disc / DVD Players
The following describes the procedure for playing Blu-ray disc/DVD players. Use the same procedure to play other components.

1 Prepare for playback.
   ① Turn on the power of the TV, subwoofer and player.
   ② Set the TV’s input to the AVR-1910.
   ③ Load the disc in the player.

2 Turn on the AVR-1910’s power.
   (page 17 “Turning the Power On”)

3 Press and select the input source.
   If “TUNING PRESET” is selected for preset channel, press before turning.

4 Play the component connected to the AVR-1910.
   Make the necessary settings on the player (language setting, subtitles setting, etc.) beforehand.

5 Use to adjust the volume.
   [Variable range] ––80.0dB ~ 18.0dB

6 Select the desired surround mode.
   (page 42 “Selecting the Surround Mode”)

7 Adjust the desired sound field effects.
   (page 44 “Adjusting the Sound Field Effects”)

NOTE
● Also refer to the operating instructions of the connected components when playing them.
● External devices can be controlled by remote control unit (page 52 “Operating the Connected Devices by Remote Control Unit”).

iPod® Playback
The music/video on an iPod can be played by using the control dock for iPod (ASD-1R, ASD-11R, ASD-3N or ASD-3W sold separately).
Connect the control dock for iPod beforehand. (page 14 “iPod®”).

Listening to music on an iPod®

1 Prepare for playback.
   ① Set the iPod in the DENON control dock for iPod.
   ② Assign the control dock for iPod’s input.
   ③ Set to “MAIN/TV” to “MAIN”.

2 Turn on the AVR-1910’s power.
   (page 17 “Turning the Power On”)

3 Press to select the input source assigned in step 1-② above.

   (iPod screen)
4 Press and hold it down for a 2 seconds or more to select the display mode.
There are two modes for display the contents recorded on the iPod.

- **Browse mode**: Displayed on the TV screen.
- **Remote mode**: Displayed on the iPod’s screen.

<table>
<thead>
<tr>
<th>Playable files</th>
<th>Browse mode</th>
<th>Remote mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audio file</td>
<td>![ ]</td>
<td>![ ]</td>
</tr>
<tr>
<td>Video file</td>
<td>![ ]</td>
<td>![ ]</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Active buttons</th>
<th>Browse mode</th>
<th>Remote mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remote control unit (AVR-1910)</td>
<td>![ ]</td>
<td>![ ]</td>
</tr>
<tr>
<td>iPod®</td>
<td>![ ]</td>
<td>![ ]</td>
</tr>
</tbody>
</table>

*1: When using an ASD-11R, ASD-3N or ASD-3W control dock for iPod.
*2: Video may not be output, depending on the combination of ASD-1R or ASD-11R and iPod.

5 Use ▲▼ to select the menu, then press ◄ or ► to select the music or video file to be played.

6 Press ◄ or ►. Playback starts.

7 Use ◄► to adjust the volume.

- **Variable range**: -80.0dB ~ 18.0dB

* The variable range differs according to the input signal and channel level setting.

8 Select the desired surround mode.

- **page 42 “Selecting the Surround Mode”**

9 Adjust the desired sound field effects.

- **page 44 “Adjusting the sound Field Effects”**

8 Press ◄ and hold to set the Remote mode.

- “Remote iPod” is displayed on the AVR-1910’s display.

9 Watching the iPod’s screen, use ▲▼ to select “Photos” or “Videos”.

10 Press ◄ until the image you want to view is displayed.

- “TV Out” at the iPod’s “Slideshow Settings” or “Video Settings” must be set to “On” in order to display the iPod’s photo data or videos on the monitor. For details, see the iPod’s operating instructions.

**NOTE**

- Depending on the type of iPod and the software version, some functions may not operate.
- DENON will accept no responsibility whatsoever for any loss of iPod data.

- Use the RESTORER mode to expand the low and high frequency components of compressed audio files and achieve a richer sound. The default setting is “Mode3” (page 48).

- To check the name of the title, the artist or the album when playing in browse mode, press ◄.

- The time (default : 30 sec) for which the on-screen display are displayed can be set at menu “iPod Information” (page 31). Press ◄ and set the AVR-1910’s power to the standby mode before disconnecting the iPod. Also switch the input source to one to which the menu “iPod dock” is not assigned before disconnecting the iPod.

11 Press ◄ and hold to stop

- During playback, either press and hold ◄ or press ◄.

12 Stopping playback temporarily

- During playback, press ◄ or ◄. Press again to resume playback.

13 To cue to the beginning of a track

- During playback, either press (to cue to the current track) or ◄ (to cue to the next track).

14 Repeat playback and shuffle playback

- “iPod Playback Mode” (page 35)

15 Use the iPod to play audio and video files.

- Photo and video data on the iPod can be viewed on the monitor. Only for iPod equipped with slideshow or video functions. (When using an ASD-1R or ASD-11R)
- Video may not be output, depending on the combination of ASD-1R or ASD-11R and iPod.

16 iPod is a trademark of Apple Inc., registered in the U.S. and other countries. The iPod may only be used to copy or play contents that are not copyrighted or contents for which copying or playback is legally permitted for your private use as an individual. Be sure to comply with applicable copyright legislation.

17 **Listening to FM/AM Broadcasts**

**Basic Operation**

1 Set ◄ to “MAIN/TV” and ◄ to “MAIN”.

2 Press ◄ to select “TUNER”. 
Press \( \text{FM} \) to select “FM” or “AM”.

1. Tune in automatically (Auto Tuning)
   - Press \( \text{FM} \) to light the “AUTO” indicator on the display, then use \( \text{FM} \) to select the station you want to hear.

2. Tune in manually (Manual Tuning)
   - Press \( \text{FM} \) to turn off the display’s “AUTO” indicator, then use \( \text{FM} \) to select the station you want to hear.

To tune in automatically (Auto Tuning)

1. Press \( \text{FM} \) to select the memory block (A to G).

2. Press \( \text{FM} \) to select the desired preset channel (1 to 8).

### Default settings

<table>
<thead>
<tr>
<th>Auto tuner presets</th>
<th>A1 - A8</th>
<th>B1 - B8</th>
<th>C1 - C8</th>
<th>D1 - D8</th>
<th>E1 - E8</th>
<th>F1 - F8</th>
<th>G1 - G8</th>
</tr>
</thead>
<tbody>
<tr>
<td>87.5 / 89.1 / 98.1 / 107.9 / 90.1 / 90.1 / 90.1 MHz</td>
<td>520 / 600 / 1000 / 1400 / 1500 / 1710 kHz, 90.1 MHz</td>
<td>90.1 MHz</td>
<td>90.1 MHz</td>
<td>90.1 MHz</td>
<td>90.1 MHz</td>
<td>90.1 MHz</td>
<td></td>
</tr>
</tbody>
</table>

Preset stations are erased by overwriting them.

### Listening to SIRIUS Satellite Radio Programs

#### About SIRIUS XM Radio

To listen to Satellite Radio, you’ll need to connect either a SIRIUS or XM Satellite Radio tuner (sold separately) to your satellite-ready receiver. Satellite Radio is available to residents of the US (except Alaska and Hawaii) and Canada.

Satellite Radio delivers a variety of commercial-free music from categories ranging from Pop, Rock, Country, R&B, Dance, Jazz, Classical and many more plus coverage of all the top professional and college sports including play by play games from select leagues and teams. Additional programming includes expert sports talk, uncensored entertainment, comedy, family programming, local traffic and weather and news from your most trusted sources.

Whether you purchase a SIRIUS or XM tuner, you’ll need to activate and subscribe to begin enjoying the service. Easy to follow installation and setup instructions are provided with the satellite tuners. Whichever service you choose, there are a variety of programming packages available, including the option of adding “The Best of SIRIUS” programming to your XM tuner or “The Best of XM” programming to your SIRIUS tuner, enabling you to enjoy the most popular programming among both services. The “Best of” packages are not available to SIRIUS or XM Canada subscribers at this time.

Family friendly packages are also available to restrict channels featuring content that may be inappropriate for children.

To subscribe to XM, U.S. customers should visit xmradio.com or call 1-800-XMRADIO (1-800-967-2348); Canadian customers should visit xmradio.ca or call XM Listener Care at 1-877-GETXMSR (1-877-438-9677).

To subscribe to SIRIUS, U.S. and Canadian customers can call 1-888-539-SIRI (1-888-539-7474) or visit sirius.com (US) or siriuscanada.ca (Canada).

### SIRIUS XM Radio Legal

SIRIUS, XM and all related marks and logos are trademarks of Sirius XM Radio Inc. and its subsidiaries. All other marks and logos are the property of their respective owners. All rights reserved. SIRIUS and XM subscriptions sold separately. Taxes and a one-time activation fee may apply. XM tuners and home docks or SIRIUS tuners (each sold separately) are required to receive the SIRIUS or XM satellite radio service. All programming and fees subject to change. It is prohibited to copy, decompile, disassemble, reverse engineer, hack, manipulate or otherwise make available any technology or software incorporated in receivers compatible with the SIRIUS or XM Satellite Radio Systems.

Service not available in Alaska and Hawaii.

#### Basic Operation

1. Set \( \text{FM} \) to “MAIN/TV” and \( \text{FM} \) to “MAIN”.

2. Press \( \text{FM} \) to select “SIRIUS”.

3. Use \( \text{FM} \) to select the channel.

When the channel is tuned in, the name of the track and artist are displayed.
1 Press \[\text{M} \rightarrow \text{SIRIUS}.\] to select “SIRIUS”.

2 Press \[\text{STATUS}\] on the main unit until “SIGNAL” appears on the display.

3 Adjust the position of the antenna until “SIGNAL: EXCELLENT” is shown on the display.

4 Press \[\text{STATUS}\] on the main unit until the channel you want to check (example: “SR001”) is displayed.

5 Press \[\text{UP/PAG} \rightarrow \text{OFF} \rightarrow \text{Free} \rightarrow \text{SR000}\] and select channel 0 (SR000).

Channel No. and Sirius ID are alternately shown on the display.

SR000 SiriusID

\[\text{************}\]

Sirius ID: Write your own SIRIUS ID for storage use.

- The channel switches continuously when \[\text{M} \rightarrow \text{SIRIUS}\] is pressed and held.
- The song title, artist name, composer name, category and reception level can be checked by pressing \[\text{STATUS}\] on the main unit.
- The time (default: 30 sec) for which the on-screen display are displayed can be set at menu “On-Screen Display” ([page 31]).

1 Tune in the broadcast channel you want to preset.

2 Press \[\text{CH} \rightarrow \text{CH} \rightarrow \text{CH} \rightarrow \text{SR000}\] to select the memory block (A to G) in which the channel is to be preset.

3 Press \[\text{CH} \rightarrow \text{CH} \rightarrow \text{CH} \rightarrow \text{SR000}\] to select the preset number (1 to 8).

4 Press \[\text{M} \rightarrow \text{SIRIUS}\] again to complete the setting.

5 Press \[\text{CH} \rightarrow \text{CH} \rightarrow \text{CH} \rightarrow \text{SR000}\] to select the block (A to G) in which the channel is to be preset.

6 Press \[\text{CH} \rightarrow \text{CH} \rightarrow \text{CH} \rightarrow \text{SR000}\] to select the preset number (1 to 8).

7 Press \[\text{M} \rightarrow \text{SIRIUS}\] again to complete the setting.

To preset other channels, repeat steps 1 to 5.

NOTE Preset channels are erased by overwriting them.

Listening to Preset Channels

1 Press \[\text{M} \rightarrow \text{SIRIUS}\] to select the memory block (A to G).

2 Press \[\text{CH} \rightarrow \text{CH} \rightarrow \text{CH} \rightarrow \text{SR000}\] to select the desired preset channel (1 to 8).

3 Press \[\text{CH} \rightarrow \text{CH} \rightarrow \text{CH} \rightarrow \text{SR000}\] to select the desired preset channel (1 to 8).

You can also operate via the main unit. In this case, perform the following operations.

- Press \[\text{CH} \rightarrow \text{CH} \rightarrow \text{CH} \rightarrow \text{SR000}\], then turn \[\text{CH} \rightarrow \text{CH} \rightarrow \text{CH} \rightarrow \text{SR000}\] on the main unit to select the preset radio channel.

Searching Categories

1 Press \[\text{CH} \rightarrow \text{CH} \rightarrow \text{CH} \rightarrow \text{SR000}\].

2 Use \[\text{CH} \rightarrow \text{CH} \rightarrow \text{CH} \rightarrow \text{SR000}\] to select the category, then use \[\text{CH} \rightarrow \text{CH} \rightarrow \text{CH} \rightarrow \text{SR000}\] to select the desired channel.

Playing Components

- Channels under Parental Lock cannot be tuned in by performing Tuning Up/Down or by category search.
- Channels stored in preset memory can be tuned in by the preset channel select operation, even if Parental Lock is applied.
- When a channel to which Parental Lock is applied is being played, Parental Lock for that channel is cancelled by performing Step2.
- You can also set “Parental Lock” from the menu ([page 37]).
Operations During Playback

Turning Off the Sound Temporarily (Muting)

Press MUTE. The sound is reduced to the level set at menu “Mute Level” (page 30). To cancel, press MUTE again. Muting can also be canceled by adjusting the master volume.

Listening with Headphones

Plug the headphones into the PHONES jack on the main unit. The sound from the speakers and pre-out connectors is automatically cut.

**NOTE**
- To prevent hearing loss, do not raise the volume level excessively when using headphones.
- Unplug headphones when performing the Audyssey Auto Setup procedure or other settings.

Switching the front speakers

Press .

**NOTE**
When you set to “Custom” with “Front Speaker Setup” (page 27), you cannot operate .

Playing Components

Selecting the Surround Mode

Select a surround mode to enjoy surround playback with your favorite sound field effects.

1 Playing sources according to the sources’ audio signal format/number of channels (Standard Playback)

**Operations**

The selectable surround modes depend on the following:
- Format of the audio signals being input
- Number of channels of the audio signals being input
- The set amplifier assignment mode (page 27)

1 Playing the source (page 38).

2 Press STD to select the surround mode.

- **Multichannel sources**
  The surround modes that can be selected differ according to the input source.

- **2channel sources**
  When you select “DOLBY PLIIz”, set “Amp Assign” to “Front Height”.

  - **DOLBY PLIIx, DOLBY PLII**
  - **DOLBY PLIIz**
  - **DTS NEO:6**


**NOTE**

The select modes that can be selected depend on the input source being played.

The “Cinema” and “Music” modes can also be set by pressing or .

3 This is the operation for playing 2-channel sources.

Select the mode for the source at “Mode” (page 44).

- **DOLBY PLIIx, DOLBY PLII**
  - **Cinema**: This mode is suited for movie sources.
  - **Music**: This mode is suited for music sources.
  - **Game**: This mode is suited for games.
  - **Pro Logic**: This is the Pro Logic playback mode. This can be selected when playing with a DOLBY PLII decoder. When this mode is selected, “DOLBY PL” is displayed.

- **DTS NEO:6**
  - **Cinema**: This mode is suited for movie sources.
  - **Music**: This mode is suited for music sources.

※ The modes that can be selected depend on the input source being played.
In the case of standard playback of multi-channel sources, the AVR-1910 recognizes the format of the multi-channel audio input signal and automatically operates the appropriate decoder for surround sound.

### Displaying the currently playing surround mode

#### Surround playback of multi-channel sources (Dolby Digital, DTS, etc.)

In the case of standard playback of multi-channel sources, the AVR-1910 recognizes the format of the multi-channel audio input signal and automatically operates the appropriate decoder for surround sound.

<table>
<thead>
<tr>
<th>Input signal</th>
<th>Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dolby Digital (other than 2ch)</td>
<td>DOLBY DIGITAL</td>
</tr>
<tr>
<td>Dolby Digital EX</td>
<td>DOLBY DIGITAL EX</td>
</tr>
<tr>
<td>Dolby Digital Plus (1)</td>
<td>DOLBY DIGITAL+PLx C</td>
</tr>
<tr>
<td>Dolby TrueHD (1)</td>
<td>DOLBY TrueHD</td>
</tr>
<tr>
<td>DTS (5.1ch) / DTS-ES Discrete 6.1 / DTS-ES Matrix 6.1 / DTS 96/24</td>
<td>DTS SURROUND</td>
</tr>
<tr>
<td>DTS-HD (1)</td>
<td>DTS-HD H/RES</td>
</tr>
<tr>
<td>PCM (multi ch)</td>
<td>MULTI CH IN</td>
</tr>
</tbody>
</table>

#### Direct Playback

In this mode the signals bypass the tone adjustment circuitry for high quality sound. The sound is output to the same channels as the input signal.

<table>
<thead>
<tr>
<th>Input signal</th>
<th>Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analog signal / PCM (2ch) / Dolby Digital source / DTS source / Other 2-channel digital signals</td>
<td>DIRECT</td>
</tr>
<tr>
<td>PCM (multi ch)</td>
<td>MULTI CH DIRECT</td>
</tr>
</tbody>
</table>

1. Select the input source by pressing \( \text{SOURCE SELECT} \) and play the source (page 38).
2. Press \( \text{DIRECT} \) to select the “DIRECT”.

### Displaying the currently playing surround mode

#### Input signal

- Analog signal
- PCM (2ch)
- Dolby Digital source
- DTS source
- Other 2-channel digital signals

#### Display

- DIRECT
- MULTI CH DIRECT
- M DIRECT + PLIx CINEMA
- M DIRECT + PLIx MUSIC
- M DIRECT + PLIx
- M DIRECT Z1

**1**: When a signal is input, the HD AUDIO indicator lights.

**2**: This is displayed when the input signal is “DTS-ES Matrix 6.1” and the AVR-1910’s “AFDM” setting (page 45) is set to “ON”.

**3**: This is displayed when the input signal is “DTS-ES Matrix 6.1”.

**4**: This is displayed when the input signal is “DTS 96/24”.

### Playing in a DENON original surround mode

The desired mode according to the program source and viewing situation can be selected from among 7 DENON original surround modes.

1. Select the input source by pressing \( \text{SOURCE SELECT} \) and play the source (page 38).
2. Press \( \text{SURROUND SELECT} \) to select the Surround mode.

- **5CH/7CH STEREO**: This mode is for enjoying stereo sound from all speakers.
- **ROCK ARENA**: This mode is for enjoying the atmosphere of a live concert in an arena.
- **JAZZ CLUB**: This mode is for enjoying the atmosphere of a live concert in a jazz club.
- **MONO MOVIE**: This mode is for playing monaural movie sources with surround sound.
- **VIDEO GAME**: This mode is suited for achieving surround sound with video games.
- **MATRIX**: This mode lets you add a sense of expansion to stereo music sources.
- **VIRTUAL**: This mode is for enjoying surround effects using only the front speakers or headphones.

### Direct Playback

In this mode the signals bypass the tone adjustment circuitry for high quality sound. The sound is output to the same channels as the input signal.

1. Select the input source by pressing \( \text{SOURCE SELECT} \) and play the source (page 38).
2. Press \( \text{DIRECT} \) to select the “DIRECT”.

### Displaying the currently playing surround mode

#### Input signal

- Analog signal
- PCM (2ch)
- Dolby Digital source
- DTS source
- Other 2-channel digital signals

#### Display

- DIRECT
- MULTI CH DIRECT
- M DIRECT + PLIx CINEMA
- M DIRECT + PLIx MUSIC
- M DIRECT + PLIx
- M DIRECT Z1

**1**: When playing sources recorded in monaural in the MONO MOVIE mode, the sound will be off balance with a single channel (left or right), so input to both channels.

Depending on the program source being played, it may not be possible to achieve a satisfactory surround effect. In this case, try other modes to achieve a sound field suited to your tastes.
Selecting the Surround Mode

Stereo Playback

This is the mode for playing in stereo. The tone can be adjusted. Sound is output from the front left and right speakers and subwoofer.

1. Select the input source by pressing and play the source (page 38).

Playback

2. Press to select the “STEREO”.

Playing the Pure Direct mode

This is the mode that recreates the original sound most faithfully, providing extremely high quality sound.

1. Select the input source by pressing and play the source (page 38).

2. Press .

• To cancel, press again.
• The channel level and surround parameters in the PURE DIRECT mode are the same as in the DIRECT mode.

NOTE

When in the PURE DIRECT mode, the on-screen display is not displayed and the display on the main unit is turned off.

Adjusting the Sound Field Effects (Parameter)

The sound being played in the surround mode can be adjusted to your liking. The items (parameters) that can be adjusted depend on the signal being input and the currently set surround mode. For details on the adjustable parameters, see “Surround Modes and Parameters” (page 58).

NOTE

Some of the setting items cannot be set while playback is stopped. Set these items during playback.

Adjusting the sound field effects (Surround Parameter) Default settings are underlined.

<table>
<thead>
<tr>
<th>Setting items</th>
<th>Setting contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mode</td>
<td>Set the play mode for playing 2-channel sources in surround.</td>
</tr>
<tr>
<td>Cinema : This is the mode for cinema source.</td>
<td></td>
</tr>
<tr>
<td>Music : This is the mode for music source.</td>
<td></td>
</tr>
<tr>
<td>Game : This is the mode for game source.</td>
<td></td>
</tr>
<tr>
<td>ProLogic : Dolby Pro Logic playback mode (PLII mode only). (This is the mode for 4-channel playback (front L, front R, center, surround (MONO).)</td>
<td></td>
</tr>
<tr>
<td>In the DTS NEO:6 mode Cinema : This is the mode for cinema source.</td>
<td></td>
</tr>
<tr>
<td>Music : This is the mode for music source.</td>
<td></td>
</tr>
<tr>
<td>• The “Music” mode is also effective for sources including a lot of stereo music.</td>
<td></td>
</tr>
<tr>
<td>• The “Cinema” and “Music” modes can also be set by pressing or .</td>
<td></td>
</tr>
<tr>
<td>Cinema EQ</td>
<td>Soften the treble range of movie sound tracks for better understanding.</td>
</tr>
<tr>
<td>OFF : “Cinema EQ” is not used.</td>
<td></td>
</tr>
<tr>
<td>ON : “Cinema EQ” is used.</td>
<td></td>
</tr>
<tr>
<td>Dynamic Compression (D.Comp)</td>
<td>Compress dynamic range (difference between loud and soft sounds).</td>
</tr>
<tr>
<td>Low/Mid/High : These set the compression level.</td>
<td></td>
</tr>
<tr>
<td>OFF : Turn dynamic range compression off.</td>
<td></td>
</tr>
<tr>
<td>The “D.Comp” indicator lights when playing DTS source that supports the “D.Comp” function.</td>
<td></td>
</tr>
<tr>
<td>Dynamic Range Control (DRC)</td>
<td>Compress dynamic range.</td>
</tr>
<tr>
<td>Auto : Dynamic range compression of Dolby TrueHD sources turns on and off automatically.</td>
<td></td>
</tr>
<tr>
<td>Low/Mid/High : These set the compression level.</td>
<td></td>
</tr>
<tr>
<td>OFF : Turn dynamic range compression off.</td>
<td></td>
</tr>
<tr>
<td>LFE</td>
<td>Adjust the low-frequency effects level (LFE).</td>
</tr>
<tr>
<td>–10dB ~ 0dB</td>
<td></td>
</tr>
<tr>
<td>For proper playback of the different program sources, we recommend setting to the values below.</td>
<td></td>
</tr>
<tr>
<td>• Dolby Digital sources : “0dB”</td>
<td></td>
</tr>
<tr>
<td>• DTS movie sources : “0dB”</td>
<td></td>
</tr>
<tr>
<td>• DTS music sources : “–10dB”</td>
<td></td>
</tr>
</tbody>
</table>

Remote control operation buttons

MENU : Displaying the menu
Cancel the menu
ː : Moves the cursor (Up/Down/Left/Right)
ENTER : Decision the setting
RETURN : Return to previous menu
### Setting items

<table>
<thead>
<tr>
<th>Setting items</th>
<th>Setting contents</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Center Image</strong></td>
<td>Assign center channel signal to front left and right channels for wider sound. 0.0 – 1.0 (0.3)</td>
</tr>
<tr>
<td><strong>Panorama</strong></td>
<td>Assign front L/R signal also to surround channels, for wider sound. ON : Set. OFF : Do not set.</td>
</tr>
<tr>
<td><strong>Dimension</strong></td>
<td>Shift sound image center to front or rear, to adjust playback balance. 0 – 6 (3)</td>
</tr>
<tr>
<td><strong>Center Width</strong></td>
<td>Assign center channel signal to front left and right channels for wider sound. 0 – 7 (3)</td>
</tr>
<tr>
<td><strong>Delay Time</strong></td>
<td>Adjust delay time to control sound stage size. 0ms – 300ms (30ms)</td>
</tr>
<tr>
<td><strong>Effect Level</strong></td>
<td>Adjust the strength of the surround effect. 1 – 15 (10)</td>
</tr>
</tbody>
</table>

### Setting items

<table>
<thead>
<tr>
<th>Setting items</th>
<th>Setting contents</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AFDM (Auto Flag Detect Mode)</strong></td>
<td>Detects the source's surround back channel signal and sets the optimum surround mode automatically. ON : Set. OFF : Do not set.</td>
</tr>
</tbody>
</table>
| **Surround Back**           | Sets the method of generating of the surround back channel. For 2-channel sources ON : The surround back channel is used. OFF : No signal is played from the surround back channels. For multi channel sources Set this to set the method of generating of the surround back channel for sources that do not include surround back signals and when you do not want to play the surround back signals included in the source. Check the audio signals of the source being played before making this setting. OFF : No signal is played from the surround back channels. MTRX ON : Generate and play the surround back signals from the surround channel signals. PLix CINEMA*1 : Generate and play the surround back signals by decoding the signals in the “Dolby Pro Logic Ilx Cinema” mode. PLix MUSIC*2 : Generate and play the surround back signals by decoding the signals in the “Dolby Pro Logic Ilx Music” mode. ES MTRX : Generate and play the surround back signals from the surround channel signals of the DTS source. ES DSCRT*3 : Play the surround back signals included in the 6.1-channel DTS source. DSCRT ON*3 : Play the surround back signals included in the 7.1-channel source. *1 : This can be selected when "S.Back" in the “Speaker Config.” settings (page 26) is set to “2sp”.
*2 : This can be selected when "S.Back" in the “Speaker Config.” settings (page 26) is set to “2sp” or “1sp”.
*3 : When “AFDM” is set to “ON”, the surround back channel is played with the AFDM function. When selected while “AFDM” is set to “OFF”, the source's surround back signals are played. This can also be set by pressing ST. |

### NOTE

“Room Size” does not indicate the size of the room in which sources are played. This is valid when the “Amp Assign” setting (page 25) is set to “7.1-channel surround back” or “6.1-channel surround back”, and when the “S.Back” setting (page 26) is set to “Large” or “Small.”

### Remote control operation buttons

- **DISPLAY** : Displaying the menu
- **EXIT** : Cancel the menu
- **CURSOR** : Moves the cursor (Up/Down/Left/Right)
- **ENTER** : Decision the setting
- **RETURN** : Return to previous menu
**Adjusting the Sound Field Effect (Parameter)**

**Setting items**

<table>
<thead>
<tr>
<th>Setting contents</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Front Height</strong> Set whether or not to use the front height channel.</td>
</tr>
<tr>
<td><strong>Subwoofer ATT</strong> Attenuate subwoofer level when using EXT. IN mode.</td>
</tr>
<tr>
<td><strong>Subwoofer</strong> Turn subwoofer output on and off.</td>
</tr>
<tr>
<td><strong>Default</strong> Restores all the surround parameter settings to their defaults.</td>
</tr>
</tbody>
</table>

**Setting items**

<table>
<thead>
<tr>
<th>Setting contents</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tone Control</strong> Sets the tone control function ON and OFF.</td>
</tr>
<tr>
<td><strong>Bass</strong> Adjusts the low frequencies.</td>
</tr>
<tr>
<td><strong>Treble</strong> Adjusts the high frequencies.</td>
</tr>
</tbody>
</table>

**Making the MultEQ, Dynamic EQ and Dynamic Volume settings (Audyssey Settings)**

- When the “Audyssey Auto Setup” (page 20) procedure is performed, the “MultEQ,” “Dynamic EQ” and “Dynamic Volume” functions are enabled.
- Operating conditions for each function
  - **Dynamic EQ**
    - When “MultEQ” is set to “ON”
  - **Dynamic Volume**
    - When “Dynamic EQ” is set to “ON”
  - **Setting**
    - When “Dynamic Volume” is set to “ON”

**NOTE**

If the speaker settings are changed after the “Audyssey Auto Setup” procedure is performed, “MultEQ,” “Dynamic EQ” and “Dynamic Volume” functions cannot be selected and “Run Audyssey” is displayed.

If this happens, either perform the “Audyssey Auto Setup” procedure again, or perform the “Restore” operation (page 24) to restore the settings to as they were after the “Audyssey Auto Setup” procedure was performed.

**Adjusting the Tone (Tone Control)**

**Default settings are underlined.**

**Setting items**

<table>
<thead>
<tr>
<th>Setting contents</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tone Control</strong> Sets the tone control function ON and OFF.</td>
</tr>
<tr>
<td><strong>Bass</strong> Adjusts the low frequencies.</td>
</tr>
<tr>
<td><strong>Treble</strong> Adjusts the high frequencies.</td>
</tr>
</tbody>
</table>

**NOTE**

- When “Dynamic EQ” (page 47) is set to “OFF”, the tone cannot be adjusted when in the DIRECT mode.

**Remote Control operation buttons**

- **MENU**: Displaying the menu
- **RETURN**: Return to previous menu
- **ENTER**: Decision the setting
- **CANCEL**: Cancel the menu
- **>** : Moves the cursor (Up/Down/Left/Right)
**Getting Started**

**Connections**

**Remote Control**

**Information**

**Troubleshooting**

**Specifications**

---

**ENGLISH Multi-Zone Settings**

---

**Adj. the Sound Field Effect (Parameter)**

---

**Remote control operation buttons**

---

**Dynamic EQ**

Audyssey Dynamic EQ solves the problem of deteriorating sound quality as volume is decreased by taking into account human perception and room acoustics.

This can be set when “MultEQ” (page 46) is set to anything other than “OFF”.

<table>
<thead>
<tr>
<th>Setting items</th>
<th>Setting contents</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ON</strong></td>
<td>Use Dynamic EQ function.</td>
</tr>
<tr>
<td><strong>OFF</strong></td>
<td>Do not use Dynamic EQ function.</td>
</tr>
</tbody>
</table>

- When set to “ON”, “Dynamic EQ” is displayed.
- When “MultEQ” is set to “OFF”, “Dynamic EQ” is automatically set to “OFF”.
- This can also be set by pressing.

Dynamic EQ / Volume : ON

Dynamic EQ / Volume : OFF

“Green”

“Red”

**NOTE**

“Tone Control” is set to “OFF” when “Dynamic EQ” is set to “ON”.

**Reference Level Offset**

Audyssey Dynamic EQ takes the standard film mixing level of 85 dB SPL during –20 dB FS input as its reference level. However, since standardization is lacking outside the film industry, the reference level of media contents may not be appropriate. In order to view such contents, Reference Level Offset of Dynamic EQ has available offsets of 5 dB, 10 dB and 15 dB.

- **0dB** : Suitable for viewing movies.
- **5dB** : Suitable for listening to classical music and other content mixed at a high level.
- **10dB** : Suitable for listening to jazz and other audio sources with a wide dynamic range. Also suitable for viewing TV.
- **15dB** : Suitable for listening to pop, rock music and other content with an extremely wide dynamic range.

Setting is enabled when “Dynamic EQ” is “ON”.

---

**Dynamic Volume**

Audyssey Dynamic Volume solves the problem of large variations in volume level between television programs, commercials, and between the soft and loud passages of movies.

This can be set when “Dynamic EQ” (page 46) is set to “ON”.

<table>
<thead>
<tr>
<th>Setting items</th>
<th>Setting contents</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ON</strong></td>
<td>Use Dynamic Volume. The Dynamic Volume effect will be at the level of the “Setting” (page 47)</td>
</tr>
<tr>
<td><strong>OFF</strong></td>
<td>Do not use Dynamic Volume.</td>
</tr>
</tbody>
</table>

- When set to “ON”, “Dynamic Volume” is displayed.
- When “MultEQ” is set to “OFF”, “Dynamic Volume” is automatically set to “OFF”.
- This can also be set by pressing.

Dynamic EQ / Volume : ON

Dynamic EQ / Volume : OFF

“Green”

“Red”

---

**Adjusting the Sound Field Effect (Parameter)**

---

**Adjust tonal quality for each speaker using graphic equalizer (Manual EQ)**

Default settings are underlined.

---

**Playback**

---

**Setting items**

**Setting contents**

---

**Setting**

Set Dynamic Volume effect.

**Day** : Low setting provides the least adjustments to the loudest and softest of sounds.

**Evening** : Middle setting prevents loud and soft sounds from being much louder and softer respectively than average sounds.

**Midnight** : High setting affects volume the most, causing all sounds to be of equal loudness.

---

**Base Curve Copy**

Copy the MultEQ “Audyssey Flat” correction curve.

<table>
<thead>
<tr>
<th>Setting items</th>
<th>Setting contents</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Yes</strong></td>
<td>Copy.</td>
</tr>
<tr>
<td><strong>No</strong></td>
<td>Do not copy.</td>
</tr>
</tbody>
</table>

“Base Curve Copy” is displayed after the Audyssey Auto Setup procedure has been performed.

---

**Default**

Reset the “Manual EQ” settings to their defaults.

<table>
<thead>
<tr>
<th>Setting items</th>
<th>Setting contents</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Yes</strong></td>
<td>Reset to the defaults.</td>
</tr>
<tr>
<td><strong>No</strong></td>
<td>Do not reset to the defaults.</td>
</tr>
</tbody>
</table>

---

**Remote control operation buttons**

**MENU**

- Displaying the menu
- Cancel the menu

**ENTER**

- Decision the setting

**RETURN**

- Return to previous menu
Adjusting the Sound Field Effect (Parameter)

Restoring compressed audio to nearly pre-compressed conditions for playback (RESTORER)

- Such compressed audio formats as MP3, WMA (Windows Media Audio) and MPEG-4 AAC reduce the amount of data by eliminating signal components that are hard for the human ear to hear. The RESTORER function generates the signals eliminated upon compression, restoring the sound to conditions near those of the original sound before compression. It also corrects the sense of volume of the bass to obtain richer sound with compressed audio signals.
- This can be set with analog signals or when a PCM signal (fs = 44.1/48 kHz) is input.

Setting contents

<table>
<thead>
<tr>
<th>Setting</th>
<th>Mode 1 (RESTORER 64)</th>
<th>Mode 2 (RESTORER 96)</th>
<th>Mode 3 (RESTORER HQ)</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Do not use RESTORER.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mode1</td>
<td>Optimized mode for compressed sources with very weak highs.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mode2</td>
<td>Apply suitable bass and treble boost for all compressed sources.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mode3</td>
<td>Optimized mode for compressed sources with normal highs.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- The default setting for "iPod" is "Mode3". All others are set to "OFF".
- When set to something other than "OFF," "RESTORER" is displayed.
- This can also be set by pressing during playback.

Setting the audio delay time while watching the picture (Audio Delay)

- If you wish to adjust the "Audio Delay" while playing HDMI or component video signals, press \( \Delta \) to set "OSD" to "OFF". This way the audio delay can be adjusted while watching the picture. (Press the \( \Delta \) again. The display switches to the display of the menu screen only.)
- This cannot be adjusted when playing in the EXT. IN, DIRECT or STEREO mode (with "Front Speaker" set to "Large," "Tone Control" to "OFF" and "MultEQ" and "RESTORER" to "OFF").
- When the Auto Lipsync Correction function is operating, you can set within the range 0 ~ 100 ms.
- Store "Audio Delay" for each input source.

Checking the Status (Information)

<table>
<thead>
<tr>
<th>Setting items</th>
<th>Setting contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Status</td>
<td>Select Source / Surround Mode / Input Mode / Decode Mode / HDMI / Digital / Component / iPod Dock / Video Select / Source Level / ( \iota ) / p Scaler / Resolution / Progressive Mode / Aspect</td>
</tr>
</tbody>
</table>

You can also display current status on the main unit's display each time you press \( \Delta \) on the main unit.

<table>
<thead>
<tr>
<th>ZONE2</th>
<th>POWER/ Select Source/ Master Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audio Input Signal</td>
<td>Surround Mode : The currently set surround mode is displayed.</td>
</tr>
<tr>
<td></td>
<td>Signal : The input signal type is displayed.</td>
</tr>
<tr>
<td></td>
<td>Format : The number of channels in the input signal (front, surround, LFE) is displayed.</td>
</tr>
<tr>
<td></td>
<td>Offset : The dialogue normalization correction value is displayed.</td>
</tr>
<tr>
<td></td>
<td>Flag : This is displayed when inputting signals including a surround back channel. &quot;MATRIX&quot; is displayed with Dolby Digital EX and DTS-ES Matrix signals, &quot;DISCRETE&quot; with DTS-ES Discrete signals.</td>
</tr>
</tbody>
</table>

HDMI Information

- HDMI Signal Information
  - HDMI Monitor Information
    - Interface / Suppport Resolution

Auto Surround Mode

- Shows information about auto surround mode settings.

Quick Select

- Shows information about quick select settings.

Preset Channel

- Shows information about preset channels.

Remote control operation buttons

<table>
<thead>
<tr>
<th>Remote control operation buttons</th>
<th>MENU</th>
<th>Displaying the menu Cancel the menu</th>
<th>: Moves the cursor (Up/Down/Left/Right)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTER</td>
<td>Decision the setting</td>
<td>RETURN</td>
<td>Return to previous menu</td>
</tr>
</tbody>
</table>
**Convenient functions**

### HDMI Control Function

When you make an HDMI connection with a TV or player compatible with AVR-1910 and HDMI control functions, you can perform the following operations by setting the HDMI control function of each device.

- AVR-1910 power off can be linked to the TV power off step
  - When you set “Output audio from amp” in the TV audio output setup operation, you can switch the amp power on.
- You can switch audio output devices with a TV operation
- You can adjust AVR-1910 volume in the TV volume adjustment operation
- You can switch AVR-1910 input source through linkage to TV input switching
- When playing the player, the AVR-1910 input function switches to the function of that player

### Setting the power to standby after a certain amount of time (Sleep Timer Function)

This function allows you to automatically set the power to standby after the set amount of time has passed.

When the sleep timer turns the power off in the MAIN ZONE, the power also turns off in the ZONE2.

**Press \( \bullet \) and display the time you want to set.**

The “SLEEP” indicator on the display lights.

- The time switches as shown below each time \( \bullet \) is pressed.

```
Sleep:OFF    Sleep:120min    Sleep:90min
Sleep:30min  Sleep:60min
```

- The time display turns off after about 5 seconds, and the setting is activated.
- Once the set time has passed, the power is automatically set to standby.

**To cancel the sleep timer**

Press \( \bullet \) to set “OFF”.

- The “SLEEP” indicator on the display turns off.

1. Turn the power on for all the equipment connected by HDMI cable.
2. Set the HDMI control function for all equipment connected by HDMI cable.
   - Set “HDMI Control” (page 28) to “ON”.
   - Please refer to the owner’s manual as regards setting of connected devices.
   - Carry out Steps 1 and 2 should any of the equipment be unplugged.
3. Switch the television input to the HDMI connected to the AVR-1910.
4. Switch the AVR-1910 input to the HDMI input source and check if the picture from the player is ok.
5. When you turn the TV’s power to standby, check that the power of the AVR-1910 and player also goes on standby.

**NOTE**

- To play the TV's sound on the AVR-1910, make optical digital connections (page 13 “Connecting the TV”).
- To use this function, set “HDMI Control” (page 28) to “ON”.

**NOTE**

- When you power off AVR-1910, the HDMI control function does not operate.
- Some functions may not operate depending on the connected TV or player. Check the owner’s manual of each device for details beforehand.
- When “HDMI Control” is set to “ON”, it is not possible to assign an HDMI terminal to “TV” at “HDMI” (page 28).
- When “HDMI Control” (page 28) is set to “ON”, power is supplied constantly to the AC outlet (UNSWITCHED).

If the HDMI control function does not operate properly, check the following points.
- Is the TV or player compatible with the HDMI control function?
- Is the AVR-1910 properly set?
- Is “HDMI Control” (page 28) set to “ON”?
- Is “Power Off Control” (page 28) set to “ON”?
- Are the HDMI control function settings of all equipment correct?

**NOTE**

Should any of the operations below be performed, the interlocking function may be reset, in which case, repeat step’s 1 and 2.
- Menu “HDMI” (page 28) setting has changed.
- There is a change to the connection between the equipment and the HDMI, or an increase in equipment.

**Playback**

- To play the TV's sound on the AVR-1910, make optical digital connections (page 13 “Connecting the TV”).
- To use this function, set “HDMI Control” (page 28) to “ON”.

**NOTE**

- When you power off AVR-1910, the HDMI control function does not operate.
- Some functions may not operate depending on the connected TV or player. Check the owner’s manual of each device for details beforehand.
- When “HDMI Control” is set to “ON”, it is not possible to assign an HDMI terminal to “TV” at “HDMI” (page 28).
- When “HDMI Control” (page 28) is set to “ON”, power is supplied constantly to the AC outlet (UNSWITCHED).

If the HDMI control function does not operate properly, check the following points.
- Is the TV or player compatible with the HDMI control function?
- Is the AVR-1910 properly set?
- Is “HDMI Control” (page 28) set to “ON”?
- Is “Power Off Control” (page 28) set to “ON”?
- Are the HDMI control function settings of all equipment correct?

**NOTE**

Should any of the operations below be performed, the interlocking function may be reset, in which case, repeat step’s 1 and 2.
- Menu “HDMI” (page 28) setting has changed.
- There is a change to the connection between the equipment and the HDMI, or an increase in equipment.
Adjust the volume of the different speakers

You can adjust the channel level either according to the playback sources or to suit your taste, as described below.

Adjust the volume of the different speakers

1 Press CH LEVEL.

2 Press △ ▽ to select the speaker.

3 Press ◀ ▶ to adjust the volume.

* In the case of a subwoofer, reducing the volume when it is at “–12 dB” will change the setting to “OFF” (none).

Adjusting the volume of groups of speakers (Fader Function)

This function lets you adjust (fade) the sound from all the front (Front speaker/center speaker/Front Height speaker) or rear (Surround speaker/Surround Back speaker) speakers at once.

1 Use ◀ ▼ or △ to select “Fader”, then select the item to be adjusting using ◀ or ▶.

2 Press ◀ ▶ to adjust the volume of the speakers.

* The fader function does not affect the subwoofer.

* The fader can be adjusted until the volume of the speaker adjusted to the lowest value is –12 dB.

Saving frequently used settings (Quick Select Function)

This function allows you to save all the settings shown in step 1. When frequently used settings are saved, they can easily be set again the next time you want to use them. This function also allows you to always enjoy the same playback environment.

* Three sets of settings can be saved.

MAIN ZONE settings

Saving the settings

1 Set the items below to the settings you want to save.
   ① Input source (page 38)
   ② Input Mode (page 34)
   ③ Surround Mode (page 42)
   ④ Audyssey Settings (MultEQ, Dynamic EQ, Dynamic Volume) (page 46)
   ⑤ Front Speaker Setup (page 27)
   ⑥ Volume setting (page 38)

2 Press and hold the desired ◀ ▼ △ until “Memory” appears on the display.

* The current settings will be memorized.

Various memory functions

Personal Memory Plus Function

This function sets the settings (input mode, surround mode, MultEQ, Dynamic EQ, Dynamic Volume, audio delay etc.) last selected for the individual input sources.

Last Function Memory

This stores the settings as they were directly before the standby mode was set.

When the power is turned back on, the settings are restored to as they were directly before the standby mode was set.

Backup Memory

The various settings are backed up for about 1 week, even if the power is turned off or the power cord is disconnected.

Saving the settings

1 Set the remote control unit’s device selector switches as shown on right.

2 Perform steps 1 and 2 under “MAIN ZONE settings”.

Naming Quick Select settings

“Quick Select Name” (page 31).

ZONE2 settings

It is also possible to save three settings for ZONE2.

Saving the settings

Press the at which the settings you want to call out are saved.

[Quick Select Defaults]

Input Source | Volume
--- | ---
Quick Select 1 | DVD | –40 dB
Quick Select 2 | SAT/CBL | –40 dB
Quick Select 3 | VCR/MD | –40 dB

Calling the settings out

Press the ◀ ▼ △ at which the settings you want to call out are saved.

NOTE

Input sources stored with the quick select function cannot be selected if they have been deleted at menu “Source Delete” (page 30). In this case, store them again.
Playing 2-Channel Sound in ZONE2 (multizone function)

2-channel sound can be played in rooms other than the MAIN ZONE where multichannel sound is played. There are two methods to do this, as described below. Choose one of the methods.

1. ZONE2 playback by speaker output
2. ZONE2 playback by audio output (PRE OUT) (using an external amplifier)

1 ZONE2 playback by speaker output

With the Amp Assign function, Zone 2 audio signals are output from the AVR-1910's SURR BACK/AMP ASSIGN terminals.

Preparations
Connecting and setting the speakers

- Connecting the speakers

<table>
<thead>
<tr>
<th>Necessary settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Set the AMP ASSIGN mode to “ZONE2”.</td>
</tr>
<tr>
<td>• Perform the settings at “ZONE2 Setup”.</td>
</tr>
</tbody>
</table>

NOTE
- We recommend using high quality pin-plug cables for audio connections in order to prevent noise.
- It is not possible to play the digital audio signals input from the HDMI, COAXIAL or OPTICAL terminals in ZONE2. Play using analog connections (in stereo).

2 ZONE2 playback by audio output

The audio signals connected to the AVR-1910’s ZONE2 output terminals (ZONE2 OUT) are output to the ZONE2’s amplifier and played with that amplifier.

Connection (ZONE2)

Playback

The operation is the same for “1 ZONE2 playback by speaker output” and “2 ZONE2 playback by audio output”.

1 Set the remote control unit’s “device selector switches” as shown on right.

2 Turn on the AVR-1910’s power. (page 17 “Turning the Power On”)

3 Press to turn on the ZONE2 power. When the power turns on, the “” indicator lights on the display.

   ※ The power can be turned on by pressing the one of while in the standby mode.

4 Use the input source selector to choose the input source. The selected input source is shown on the display.

NOTE
When “SOURCE” is selected for the input source, the sound being played in the MAIN ZONE is played. No sound is output if a digital audio input source is being played in the MAIN ZONE.

Adjusting the volume (for “1 ZONE2 playback by speaker output”)

Use to adjust the volume.

[Variable range] - – – – –80dB(1) - –40dB(41) +18dB(99)

   ※ The volume can be adjusted up to the level set at “Vol. Limit” page 30.
   ※ The volume display is the display set at “Volume Display” page 30.

For “2 ZONE2 playback by audio output”, adjust the volume on the connected amplifier.
Operating the Connected Devices by Remote Control Unit

Registering Preset Codes

DENON and other makes of components can be operated by setting the preset memory.

1 Switch [DEVICE SELECT].

- **MAIN/TV**: To register a TV
- **DEVICE**: To operate a Blu-ray disc player, DVD player, Digital video recorder, video deck, satellite receiver, cable TV or CD player

2 Set [DEVICE SELECT] to the component to be registered.

- **TV**: TV
- **DVD/HDP**: DVD player or Blu-ray disc player
- **DVR/VCR**: Digital video recorder or video deck
- **SAT/CBL**: Satellite receiver or cable TV
- **CD**: CD player

3 Press ZONE OFF and [MAIN/TV] at the same time.
The indicator starts flashing.

4 Press ~ and input the 3-digit number of the brand of the component to be preset. The numbers are shown in the Preset Code Table (End of this manual).

5 To store the codes of another component in the memory, repeat steps 1 to 4.

- Some manufacturers use more than one type of remote control code. Refer to the included list of preset codes to change the number and verify correct operation.
- VDP (Video Disc Player) can be preset when [DEVICE SELECT] is set to “DVD/HDP”.
- The preset memory can be set for one component only among the following: DVD/HDP, DVR/VCR and SAT/CABLE.

Operating Registered Devices

1 Switch

<table>
<thead>
<tr>
<th>MAIN/TV</th>
<th>To operate the TV</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEVICE</td>
<td>To operate a Blu-ray disc player, DVD player, Digital video recorder, video deck, satellite receiver, cable TV or CD player</td>
</tr>
</tbody>
</table>

2 Set [DEVICE SELECT] to the component you want to operate.

<table>
<thead>
<tr>
<th>TV</th>
<th>To TV</th>
</tr>
</thead>
<tbody>
<tr>
<td>DVD/HDP</td>
<td>DVD player or Blu-ray disc player</td>
</tr>
<tr>
<td>DVR/VCR</td>
<td>DVD recorder or video deck</td>
</tr>
<tr>
<td>SAT/CBL</td>
<td>Satellite receiver or cable TV</td>
</tr>
<tr>
<td>CD</td>
<td>CD player</td>
</tr>
</tbody>
</table>

3 Operate the component.

* For details, refer to the component’s operating instructions.

**NOTE**

Depending on the model and year of manufacture, this function cannot be used for some models, even if they are of makes listed in the list of preset codes.

*1: This operation is possible when using a DENON ASD-3N or ASD-3W Control Dock for iPod.

*2: This operation is possible when using a DENON ASD-1R or ASD-11R Control Dock for iPod.
**Operating Registered Devices**

**TV**

<table>
<thead>
<tr>
<th>Device Select</th>
<th>Front</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ON/SOURCE</strong></td>
<td>Power on / Standby</td>
</tr>
<tr>
<td></td>
<td>Play*</td>
</tr>
<tr>
<td></td>
<td>Pause*</td>
</tr>
<tr>
<td></td>
<td>Stop*</td>
</tr>
<tr>
<td></td>
<td>Manual search* (fast-reverse / fast-forward)</td>
</tr>
<tr>
<td><strong>CH + –</strong></td>
<td>TV MUTE</td>
</tr>
<tr>
<td><strong>TV INPUT</strong></td>
<td>Switching the input</td>
</tr>
<tr>
<td><strong>VOLUME ▲▼</strong></td>
<td>: TV Volume (+)</td>
</tr>
<tr>
<td></td>
<td>: TV Volume (–)</td>
</tr>
<tr>
<td><strong>MUTE</strong></td>
<td>TV MUTE</td>
</tr>
<tr>
<td><strong>MENU</strong></td>
<td>Calling out the menus</td>
</tr>
<tr>
<td><strong>ENTER</strong></td>
<td>Enter setting</td>
</tr>
<tr>
<td><strong>SETUP</strong></td>
<td>Setup</td>
</tr>
<tr>
<td><strong>RETURN</strong></td>
<td>Return</td>
</tr>
<tr>
<td><strong>Rear</strong></td>
<td>Channels</td>
</tr>
</tbody>
</table>

**Digital Video Recorder / Video Deck**

<table>
<thead>
<tr>
<th>Device Select</th>
<th>Front</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ON/SOURCE</strong></td>
<td>Power on or Power on / Standby</td>
</tr>
<tr>
<td></td>
<td>Play</td>
</tr>
<tr>
<td></td>
<td>Stop</td>
</tr>
<tr>
<td></td>
<td>Pause</td>
</tr>
<tr>
<td></td>
<td>Manual search (fast-reverse / fast-forward)</td>
</tr>
<tr>
<td><strong>CH + –</strong></td>
<td>Switch channels (+, –)</td>
</tr>
<tr>
<td><strong>MENU</strong></td>
<td>Calling out the menus</td>
</tr>
<tr>
<td><strong>ENTER</strong></td>
<td>Enter setting</td>
</tr>
<tr>
<td><strong>SETUP</strong></td>
<td>Setup</td>
</tr>
<tr>
<td><strong>RETURN</strong></td>
<td>Return</td>
</tr>
<tr>
<td><strong>Rear</strong></td>
<td>Channels</td>
</tr>
</tbody>
</table>

| Default setting (Preset code) | HITACHI (014) |
| Special Remarks | 1 |

**blu-ray Disc / DVD Player**

<table>
<thead>
<tr>
<th>Device Select</th>
<th>Front</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>POWER OFF</strong></td>
<td>Power off</td>
</tr>
<tr>
<td><strong>ON/SOURCE</strong></td>
<td>Power on or Power on / Standby</td>
</tr>
<tr>
<td></td>
<td>Play</td>
</tr>
<tr>
<td></td>
<td>Stop</td>
</tr>
<tr>
<td></td>
<td>Manual search (fast-reverse / fast-forward)</td>
</tr>
<tr>
<td><strong>CH + –</strong></td>
<td>Channel</td>
</tr>
<tr>
<td><strong>MENU</strong></td>
<td>Calling out the menus</td>
</tr>
<tr>
<td><strong>ENTER</strong></td>
<td>Enter setting</td>
</tr>
<tr>
<td><strong>SETUP</strong></td>
<td>Setup</td>
</tr>
<tr>
<td><strong>RETURN</strong></td>
<td>Return</td>
</tr>
<tr>
<td><strong>Rear</strong></td>
<td>Calling out the top menus</td>
</tr>
</tbody>
</table>

| Default setting (Preset code) | BD Player: DENON (111) DVD Player: DENON (111) |
| Special Remarks | 1, 2 |

**Special Remarks**

1. Only one device can be set in the preset memory for each mode. When a new preset code is registered, the existing code is automatically erased.
2. For some brands, the DVD remote control buttons may have different function names. Check beforehand.

* The initial setting of Preset code is 111 (DVD Player).
Operating Registered Devices

Satellite receiver/Cable TV

CD Player

<table>
<thead>
<tr>
<th>Front</th>
<th>DEVICE SELECT</th>
<th></th>
<th></th>
<th></th>
<th>POWER OFF</th>
<th>Power off</th>
</tr>
</thead>
<tbody>
<tr>
<td>ON/SOURCE</td>
<td>Power on / Standby</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Play</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pause</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Stop</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Manual search * (fast-forward / fast-forward)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CH + –</td>
<td>Channel</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cursor operation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENTER</td>
<td>Enter setting</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MENU</td>
<td>Calling out the menus</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SETUP</td>
<td>Setup</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RETURN</td>
<td>Return</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rear</th>
<th>DEVICE SELECT</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 ~ 9, +10</td>
<td>Number input / Track selection</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Default setting (Preset code)</th>
<th>Satellite Receiver</th>
<th>Cable TV</th>
</tr>
</thead>
<tbody>
<tr>
<td>–</td>
<td>ABC</td>
<td>(009)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Special Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
</tr>
</tbody>
</table>

* : When the punch through function (page 54) is set, this functions as the button for the device for which punch through is set.

Assigning buttons that are Not Used to Operate Other Devices (Punch Through Function)

The Blu-ray disc player/DVD player, Digital Video recorder, video deck, or CD player can be operated as described below even when the device is set to the “SAT/CBL” or “TV” position.

- Play
- Stop
- fast-forward
- fast-reverse
- Auto Search

1 Switch

- MAIN/TV : Assigning TV buttons to operate other devices
- DEVICE : Assigning satellite receiver or cable TV buttons to operate other devices

2 Switch

- TV : Assigning TV buttons to operate other devices
- SAT/CBL : Assigning satellite receiver or cable TV buttons to operate other devices

3 Press and at the same time. The indicator starts flashing.

4 Refer to the table below and input the number corresponding to the device to be assigned.

<table>
<thead>
<tr>
<th>Device to be assigned</th>
<th>Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>iPod, Tuner</td>
<td>1</td>
</tr>
<tr>
<td>CD Player</td>
<td>2</td>
</tr>
<tr>
<td>Blu-ray Disc Player / DVD Player</td>
<td>3</td>
</tr>
<tr>
<td>DVD Recorder, Video Deck</td>
<td>4</td>
</tr>
<tr>
<td>No setting</td>
<td>0</td>
</tr>
</tbody>
</table>

Special Remarks

1. Only one device can be set in the preset memory for each mode.
   When a new preset code is registered, the existing code is automatically erased.
2. For some brands, the DVD remote control buttons may have different function names. Check beforehand.

This is set to “No setting” upon purchase.
Other Information

Surround

The AVR-1910 is equipped with a digital signal processing circuit that lets you play program sources in the surround mode to achieve the same sense of presence as in a movie theater.

Dolby Surround

Dolby Digital

Dolby Digital is a multichannel digital signal format developed by Dolby Laboratories.

A total of 5.1-channels are played: 3 front channels ("FL", "FR" and "C"), 2 surround channels ("SL" and "SR") and the "LFE" channel for low frequencies.

Because of this, there is no crosstalk between channels and a realistic sound field with a "three-dimensional" feeling (sense of distance, movement and positioning) is achieved.

Dolby TrueHD

Dolby TrueHD is a high definition audio technology developed by Dolby Laboratories, using lossless coding technology to faithfully reproduce the sound of the studio master.

This format is compatible with a maximum sampling frequency of 96 kHz and up to 7.1-channels, so it is used for applications particularly prioritizing sound quality.

Dolby Pro Logic IIx

Dolby Pro Logic IIx is a further improved version of the Dolby Pro Logic II matrix decoding technology.

Audio signals recorded in 2-channels are decoded to achieve a natural sound with up to 7.1-channels.

There are 3 modes: "Music" suited for playing music, "Cinema" suited for playing movies, and "Game" which is optimized for playing games.

Dolby Digital EX

Dolby Digital EX is a 6.1-channel surround format proposed by Dolby Laboratories.

The 6.1 channels of sound, including surround back channels, provide improved sound positioning and expression of space.

DTS Surround

DTS Digital Surround

DTS Digital Surround is the standard digital surround format of DTS, Inc., compatible with a sampling frequency of 44.1 or 48 kHz and up to 5.1-channels of digital discrete surround sound.

DTS-HD High Resolution Audio

DTS-HD High Resolution Audio is an improved version of the conventional DTS, DTS-ES and DTS 96/24 signals formats, compatible with sampling frequencies of 96 or 48 kHz and up to 7.1-channels of discrete digital sound. High data bit rate performance provides high quality sound. This format is fully compatible with conventional products, including conventional DTS digital surround 5.1-channel data.

DTS-HD Master Audio

DTS-HD Master Audio is DTS, Inc’s lossless audio format compatible with up to 96 kHz/7.1-channels. The lossless audio coding technology faithfully reproduces the sound of the studio master. It is fully compatible with conventional products, including conventional DTS digital surround 5.1-channel data.

DTS-ES™ Discrete 6.1

DTS-ES™ Discrete 6.1 is a 6.1-channel discrete digital audio format adding a surround back (SB) channel to the DTS digital surround sound. Decoding of conventional 5.1-channel audio signals is also possible according to the decoder.

DTS-ES™ Matrix 6.1

DTS-ES™ Matrix 6.1 is a 6.1-channel discrete digital audio format inserting a surround back (SB) channel to the DTS digital surround sound through matrix encoding. Decoding of conventional 5.1-channel audio signals is also possible according to the decoder.

DTS NEO:6™ Surround

DTS NEO:6™ is a matrix decoding technology for achieving 6.1-channel surround playback with 2-channel sources. It includes "DTS NEO:6 Cinema" suited for playing movies and "DTS NEO:6 Music" suited for playing music.
**DTS 96/24**

DTS 96/24 is a digital audio format enabling high sound quality playback in 5.1-channels with a sampling frequency of 96 kHz and 24 bit quantization on DVD-Video.

Manufactured under license under U.S. Patent #’s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,226,616; 6,487,535; 7,212,872; 7,333,929; 7,392,195; 7,272,567 & other U.S. and worldwide patents issued & pending. DTS is a registered trademark and the DTS logos, Symbol, DTS-HD and DTS-HD Master Audio are trademarks of DTS, Inc.© 1996-2008 DTS, Inc. All Rights Reserved.

**Audyssey**

**Audyssey MultEQ®**

Audyssey MultEQ is a room equalization solution that calibrates any audio system so that it can achieve optimum performance for every listener in a large listening area. Based on several room measurements, MultEQ calculates an equalization solution that corrects for both time and frequency response problems in the listening area and also performs a fully automated surround system setup.

**Audyssey Dynamic EQ™**

Audyssey Dynamic EQ solves the problem of deteriorating sound quality as volume is decreased by taking into account human perception and room acoustics. Audyssey Dynamic EQ works in tandem with Audyssey MultEQ to provide well-balanced sound for every listener at any volume level.

**Audyssey Dynamic Volume™**

Audyssey Dynamic Volume solves the problem of large variations in volume level between television programs, commercials, and between the soft and loud passages of movies. Audyssey Dynamic EQ is integrated into Dynamic Volume so that as the playback volume is adjusted automatically, the perceived bass response, tonal balance, surround impression, and dialog clarity remain the same.

Manufactured under license from Audyssey Laboratories. U.S. and foreign patents pending. Audyssey MultEQ® is a registered trademark of Audyssey Laboratories. Audyssey Dynamic EQ™ is a trademark of Audyssey Laboratories. Audyssey Dynamic Volume™ is a trademark of Audyssey Laboratories.
### Surround Modes and Parameters

<table>
<thead>
<tr>
<th>Surround mode</th>
<th>Channel output</th>
<th>Signals and adjustability in the different modes</th>
<th>Parameter (default values are shown in parentheses)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Front L/R</td>
<td>Center</td>
<td>Surround L/R</td>
</tr>
<tr>
<td>PURE DIRECT, DIRECT</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>MULTI CH DIRECT</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>STEREO</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>EXT. IN</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>MULTI CH IN</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>DOLBY PRO LOGIC II</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>DOLBY PRO LOGIC III</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>DTS NEO:6</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>DOLBY PRO LOGIC IIr</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>DOLBY DIGITAL</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>DOLBY DIGITAL Plus</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>DOLBY TrueHD</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>DTS SURROUND</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>DTS 96/24</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>DTS- HD</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>5CH/7CH STEREO</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>ROCK ARENA</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>JAZZ CLUB</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>MONO MOVIE</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>VIDEO GAME</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>MATRIX</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>VIRTUAL</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
</tbody>
</table>

- ○: Signal / Adjustable
- ●: No signal / Not adjustable
- □: Turned on or off by speaker configuration setting

NOTE1: This parameter is available when the menu “Mode” (page 44) is set to “Cinema”.

NOTE2: This parameter is available when the menu “Mode” (page 44) is set to “Cinema” or “PL”.

NOTE:  
*1: When playing Dolby Digital and DTS signals.  
*2: When playing Dolby Digital, DTS and Linear PCM (multi channel).  
*3: When playing Dolby TrueHD signal.
<table>
<thead>
<tr>
<th>Surround mode</th>
<th>Signals and adjustability in the different modes</th>
<th>Parameter (default values are shown in parentheses)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pro Logic II/Music mode only</td>
<td>Panorama Dimension C. Width Center Image SW ATT</td>
</tr>
<tr>
<td>PURE DIRECT, DIRECT</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>MULTI CH DIRECT</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>STEREO</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>EXT. IN</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>MULTI CH IN</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>DOLBY PRO LOGIC II/Music mode only</td>
<td>o (OFF)</td>
<td>o (3)</td>
</tr>
<tr>
<td>DTS NEO:6</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>DOLBY PRO LOGIC IIz</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>DOLBY DIGITAL</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>DOLBY DIGITAL Plus</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>DOLBY TrueHD</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>DTS SURROUND</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>DTS-96/24</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>DTS-HD</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>5CH/7CH STEREO</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>ROCK ARENA</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>JAZZ CLUB</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>MONO MOVIE</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>VIDEO GAME</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>MATRIX</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>VIRTUAL</td>
<td>x</td>
<td>x</td>
</tr>
</tbody>
</table>

〇: Adjustable
×: Not adjustable

NOTE3: BASS +6 dB, TREBLE +4 dB
NOTE4: Cannot be set when the “Dynamic EQ” (page 47) setting is “ON”.
NOTE5: Cannot be set when the “MultEQ” (page 46) setting is “OFF”.
NOTE6: Cannot be set when the “Dynamic EQ” (page 47) setting is “OFF”.
NOTE7: “RESTORER” can be set for analog or PCM 48 k or 44.1 k input signals.
<table>
<thead>
<tr>
<th>Button</th>
<th>PCM</th>
<th>DTS-HD</th>
<th>DTS-HD</th>
<th>Input signals</th>
<th>DOLBY</th>
<th>DOLBY</th>
<th>DOLBY</th>
<th>DOLBY</th>
<th>DOLBY</th>
<th>DOLBY</th>
<th>DOLBY</th>
<th>DOLBY</th>
<th>DOLBY</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ANALOG</td>
<td>Linear PCM (multi ch)</td>
<td>Linear PCM (2ch)</td>
<td>DTS-HD Master Audio</td>
<td>DTS-HD High Resolution Audio</td>
<td>DTS ES DSCRT (With Flag)</td>
<td>DTS ES MTRX (With Flag)</td>
<td>DTS (5.1ch)</td>
<td>DTS 96/24</td>
<td>DOLBY TrueHD</td>
<td>DOLBY DIGITAL Plus</td>
<td>DOLBY DIGITAL EX (With no Flag)</td>
<td>DOLBY DIGITAL EX (With Flag)</td>
</tr>
<tr>
<td><strong>STANDARD</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>DTS SURROUND</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DTS-HD MSTR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DTS-HD Hi RES</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DTS ES DSCRT6.1</td>
<td>*1</td>
<td>*3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DTS ES MTRX6.1</td>
<td>*1</td>
<td>*3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DTS SURROUND</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DTS 96/24</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DTS I-HDII + PLIIx CINEMA</td>
<td>*2</td>
<td>*3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DTS I-HDII + PLIIx MUSIC</td>
<td>*1</td>
<td>*3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DTS I-HDII + PLIIz</td>
<td>*1</td>
<td>*4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DTS I-HDII + NEO:6</td>
<td>*1</td>
<td>*3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DTS NEO:6 CINEMA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DTS NEO:6 MUSIC</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>DOLBY SURROUND</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DOLBY TrueHD</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DOLBY DIGITAL+</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DOLBY DIGITAL EX</td>
<td>*1</td>
<td>*3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DOLBY (D+) (HD) +EX</td>
<td>*1</td>
<td>*3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DOLBY DIGITAL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DOLBY (D+) (HD) + PLIIx CINEMA</td>
<td>*2</td>
<td>*3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DOLBY (D+) (HD) + PLIIx MUSIC</td>
<td>*1</td>
<td>*3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DOLBY (D+) (HD) + PLIIz</td>
<td>*1</td>
<td>*4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DOLBY PRO LOGIC IIx CINEMA</td>
<td>*3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DOLBY PRO LOGIC IIx MUSIC</td>
<td>*3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DOLBY PRO LOGIC IIx GAME</td>
<td>*3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DOLBY PRO LOGIC IIz</td>
<td>*4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DOLBY PRO LOGIC II CINEMA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DOLBY PRO LOGIC II MUSIC</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DOLBY PRO LOGIC II GAME</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DOLBY PRO LOGIC III</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:**
1: This mode is not available when the surround back speaker setup is set to “None”.
2: This mode is not available when the surround back speaker setup is set to “1sp” or “None”.
3: Can be set when “Amp Assign” is set to “Normal”.
4: Not selectable when “Amp Assign” is set to anything other than “Front Height”.

---

**Input signals:**
- Linear PCM: Non-selectable mode
- Linear PCM: Selectable mode
- Linear PCM: Mode fixed when “AFDM” is “ON”
- Linear PCM: Mode selectable in initial status
- Digital Audio: Non-selectable mode
- Digital Audio: Selectable mode
- Digital Audio: Mode fixed when “AFDM” is “ON”
<table>
<thead>
<tr>
<th>Surround mode</th>
<th>Note</th>
<th>PCM</th>
<th>DTS-HD</th>
<th>DTS</th>
<th>DOLBY</th>
<th>DOLBY DIGITAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>ANALOG Linear PCM (multi ch)</td>
<td>Linear PCM (2ch)</td>
<td>DTS-HD Master Audio</td>
<td>DTS-HD High Resolution Audio</td>
<td>DTS ES DSCR</td>
</tr>
<tr>
<td>STANDARD</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MULTI CH IN</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MULTI CH IN</td>
<td></td>
<td>x</td>
<td>o</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>MULTI IN + PLIIx CINEMA</td>
<td>*2 *3</td>
<td>x</td>
<td>o</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>MULTI IN + PLIIx MUSIC</td>
<td>*1 *3</td>
<td>x</td>
<td>o</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>MULTI IN + PLIIxz</td>
<td>*1 *5</td>
<td>x</td>
<td>o</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>MULTI IN + Dolby EX</td>
<td>*1 *3</td>
<td>x</td>
<td>o</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>MULTI IN + Dolby EX</td>
<td>*1 *3</td>
<td>x</td>
<td>o</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>MULTI IN + Dolby EX</td>
<td>*1 *3</td>
<td>x</td>
<td>o</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>MULTI IN + Dolby EX</td>
<td>*1 *3</td>
<td>x</td>
<td>o</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>DOLBY DIRECT</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DOLBY DIRECT</td>
<td></td>
<td>o</td>
<td>x</td>
<td>o</td>
<td>o</td>
<td>o</td>
</tr>
<tr>
<td>M DIRECTION + MUSIC</td>
<td>*1 *2</td>
<td>x</td>
<td>o</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>M DIRECTION + PLIIx</td>
<td>*1 *5</td>
<td>x</td>
<td>o</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>M DIRECTION + Dolby EX</td>
<td>*1 *3</td>
<td>x</td>
<td>o</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>M DIRECTION + Dolby EX</td>
<td>*1 *3</td>
<td>x</td>
<td>o</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>M DIRECTION + Dolby EX</td>
<td>*1 *3</td>
<td>x</td>
<td>o</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>M DIRECTION + Dolby EX</td>
<td>*1 *3</td>
<td>x</td>
<td>o</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>M DIRECTION + Dolby EX</td>
<td>*1 *3</td>
<td>x</td>
<td>o</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>M DIRECTION + Dolby EX</td>
<td>*1 *3</td>
<td>x</td>
<td>o</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>M DIRECTION + Dolby EX</td>
<td>*1 *3</td>
<td>x</td>
<td>o</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>M DIRECTION + Dolby EX</td>
<td>*1 *3</td>
<td>x</td>
<td>o</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>M CH PURE DIRECT</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M CH PURE DIRECT</td>
<td></td>
<td>x</td>
<td>o</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>M CH PURE DIRECT</td>
<td></td>
<td>x</td>
<td>o</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>PURE DIRECT</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PURE DIRECT</td>
<td></td>
<td>o</td>
<td>x</td>
<td>o</td>
<td>o</td>
<td>o</td>
</tr>
<tr>
<td>M PURE D + PLIIx CINEMA</td>
<td>*2 *3</td>
<td>x</td>
<td>o</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>M PURE D + PLIIx MUSIC</td>
<td>*1 *3</td>
<td>x</td>
<td>o</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>M PURE D + PLIIxz</td>
<td>*1 *5</td>
<td>x</td>
<td>o</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>M PURE D + Dolby EX</td>
<td>*1 *3</td>
<td>x</td>
<td>o</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>M PURE D + Dolby EX</td>
<td>*1 *3</td>
<td>x</td>
<td>o</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>M PURE D + Dolby EX</td>
<td>*1 *3</td>
<td>x</td>
<td>o</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>DSP SIMULATION</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCH7CH STEREO</td>
<td>*4</td>
<td>o</td>
<td>o</td>
<td>o</td>
<td>o</td>
<td>o</td>
</tr>
<tr>
<td>ROCK ARENA</td>
<td></td>
<td>o</td>
<td>o</td>
<td>o</td>
<td>o</td>
<td>o</td>
</tr>
<tr>
<td>JAZZ CLUB</td>
<td></td>
<td>o</td>
<td>o</td>
<td>o</td>
<td>o</td>
<td>o</td>
</tr>
<tr>
<td>MONO MOVIE</td>
<td></td>
<td>o</td>
<td>o</td>
<td>o</td>
<td>o</td>
<td>o</td>
</tr>
<tr>
<td>VIDEO GAME</td>
<td></td>
<td>o</td>
<td>o</td>
<td>o</td>
<td>o</td>
<td>o</td>
</tr>
<tr>
<td>MATRIX</td>
<td></td>
<td>o</td>
<td>o</td>
<td>o</td>
<td>o</td>
<td>o</td>
</tr>
<tr>
<td>VIRTUAL</td>
<td></td>
<td>o</td>
<td>o</td>
<td>o</td>
<td>o</td>
<td>o</td>
</tr>
<tr>
<td>STEREO</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>STEREO</td>
<td></td>
<td>o</td>
<td>o</td>
<td>o</td>
<td>o</td>
<td>o</td>
</tr>
</tbody>
</table>

**NOTE:**

- **1:** This mode is not available when the surround back speaker setup is set to “None”.
- **2:** This mode is not available when the surround back speaker setup is set to “1sp” or “None”.
- **3:** Can be set when “Amp Assign” is set to “Normal”.
- **4:** If the surround back speaker setup is set to “None”, then “5CH STEREO” is displayed.
- **5:** Not selectable when “Amp Assign” is set to anything other than “Front Height”.
- **X:** Non-selectable mode
- **O:** Mode fixed when “AFDM” is “ON”
- **●:** Mode selectable in initial status
# Troubleshooting

If a problem should arise, first check the following:

1. Are the connections correct?
2. Is the set being operated as described in the owner’s manual?
3. Are the other components operating properly?

If this unit does not operate properly, check the items listed in the table below. Should the problem persist, there may be a malfunction.

In this case, disconnect the power immediately and contact your store of purchase.

## General

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Cause</th>
<th>Countermeasure</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Set does not operate properly.</td>
<td>• External noise or interference is causing the set to malfunction.</td>
<td>• Reset the microprocessor.</td>
<td>64</td>
</tr>
<tr>
<td>Power does not turn on, or turns off directly after it was turned on.</td>
<td>• Connection of the power cord is faulty.</td>
<td>• Check the insertion of the power cord plug.</td>
<td>17</td>
</tr>
<tr>
<td>No sound is produced from speakers.</td>
<td>• Connection with the input devices or connection of the speaker cables is faulty.</td>
<td>• Check the connections.</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td>• Device you want to play and set input source do not match.</td>
<td>• Select an appropriate input source.</td>
<td>38</td>
</tr>
<tr>
<td></td>
<td>• Master volume is turned too low.</td>
<td>• Adjust the master volume to an appropriate level.</td>
<td>38</td>
</tr>
<tr>
<td></td>
<td>• Mute mode is set.</td>
<td>• Cancel the mute mode.</td>
<td>42</td>
</tr>
<tr>
<td></td>
<td>• Headphones are connected.</td>
<td>• Disconnect the headphones.</td>
<td>42</td>
</tr>
<tr>
<td></td>
<td>• No digital signals are being input.</td>
<td>• Select an input source for which the digital input setting has been made.</td>
<td>33</td>
</tr>
<tr>
<td></td>
<td>• The connectors to which the digital inputs are assigned and the settable input modes do not match.</td>
<td>• Set the input mode.</td>
<td>34</td>
</tr>
<tr>
<td>Display is off.</td>
<td>• The “Display” setting is set to “OFF.”</td>
<td>• Set to something other than “OFF.”</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>• The PURE DIRECT mode is set.</td>
<td>• Set a surround mode other than the PURE DIRECT mode.</td>
<td>44</td>
</tr>
<tr>
<td>“DOLBY DIGITAL” indicator does not appear on display.</td>
<td>• Blu-ray Disc player / DVD player’s digital audio output setting is not proper.</td>
<td>• Check the Blu-ray Disc player / DVD player’s audio output setting. For details, read the Blu-ray Disc player / DVD player’s operating instructions.</td>
<td>–</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Cause</th>
<th>Countermeasure</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power switches off suddenly while you are using the AVR-1910, the power indicator will flash red at intervals of approximately 2 seconds.</td>
<td>• The protection circuit will be activated depending upon the temperature rise in the internal parts of the unit.</td>
<td>• Please switch off power at once, and re-apply the power after the body temperature has fallen sufficiently.</td>
<td>3</td>
</tr>
<tr>
<td>Power switches off suddenly while you are using the AVR-1910, the power indicator will flash red at intervals of approximately 0.5 seconds.</td>
<td>• Use speakers having impedance less than that specified.</td>
<td>• Please use speakers which have the specified impedance.</td>
<td>12</td>
</tr>
<tr>
<td>Even applying power, the power display flashes red at intervals of approximately 0.5 seconds.</td>
<td>• The AVR-1910 amplifier circuit has failed.</td>
<td>• Switch off the power and please contact the DENON service adviser.</td>
<td>–</td>
</tr>
<tr>
<td>Set does not work properly when remote control unit operated.</td>
<td>• Batteries are worn.</td>
<td>• Replace with new batteries.</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>• You are operating outside of the specified range.</td>
<td>• Operate within the specified range.</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>• Obstacle between main unit and remote control unit.</td>
<td>• Remove the obstacle.</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>• The batteries are not inserted in the proper direction, as indicated by the polarity marks in the battery compartment.</td>
<td>• Insert the batteries in the proper direction, following the polarity marks in the battery compartment.</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>• The set’s remote control sensor is exposed to strong light (direct sunlight, inverter type fluorescent bulb light, etc.).</td>
<td>• Move the set to a place in which the remote control sensor will not be exposed to strong light.</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>• Settings do not match the remote control unit’s DEVICE SELECT switch.</td>
<td>• Match the settings to the remote control unit’s DEVICE SELECT switch.</td>
<td>52</td>
</tr>
</tbody>
</table>
[Audio]

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Cause</th>
<th>Countermeasure</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>No sound is produced from center speaker.</td>
<td>You are playing a monaural source (TV, etc.) in the “STANDARD” (Dolby/DTS Surround) mode.</td>
<td>The mode is set to something other than “STANDARD” (Dolby/ DTS Surround).</td>
<td>42</td>
</tr>
<tr>
<td>No sound is produced from surround speakers.</td>
<td>The surround mode is set to “STEREO”; “DIRECT” or “PURE DIRECT”.</td>
<td>Set to a surround playback mode.</td>
<td>42, 43</td>
</tr>
<tr>
<td>No sound is produced from surround back speaker.</td>
<td>The surround back speaker’s power amplifier is assigned to a different channel.</td>
<td>Set to something other than “None”.</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>The “Parameter” – “Surround Parameter” – “SB CH Out” settings are “OFF”.</td>
<td>Please set “Parameter” – “Surround Parameter” – “SB CH Out” to settings other than “OFF”.</td>
<td>26</td>
</tr>
<tr>
<td></td>
<td>Surround mode not set to a mode for 6.1- or 7.1-channel playback.</td>
<td>Select a surround playback mode.</td>
<td>45</td>
</tr>
<tr>
<td>No sound is produced from subwoofer.</td>
<td>Subwoofer’s power not turned on.</td>
<td>Turn on the subwoofer’s power.</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>The “Subwoofer” setting at “Speaker Config.” is set to “No”.</td>
<td>Set to “Yes”.</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>The subwoofer is not properly connected.</td>
<td>Check the connections.</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td>The subwoofer’s volume is turned off.</td>
<td>Adjust the subwoofer’s volume to an appropriate level.</td>
<td>50</td>
</tr>
<tr>
<td>DTS sound is not output.</td>
<td>Blu-ray Disc player / DVD player’s audio output setting is not set to bitstream.</td>
<td>Set the Blu-ray Disc player / DVD player. For details, refer to the Blu-ray Disc player / DVD player’s operating instructions.</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>Blu-ray Disc player / DVD player is not compatible with DTS sound playback.</td>
<td>Use a DTS-compatible player.</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>The AVR-1910’s “Decode Mode” setting is set to “PCM”.</td>
<td>Set to the “Auto” or “DTS” mode.</td>
<td>35</td>
</tr>
<tr>
<td>HDMI audio signals are not output from speakers.</td>
<td>The “Manual Setup” – “HDMI Setup” – “HDMI Audio Out” setting is set to “AMP”.</td>
<td>Set to “AMP”.</td>
<td>28</td>
</tr>
<tr>
<td>No sound is output from the monitor connected with HDMI connections.</td>
<td>The “Manual Setup” – “HDMI Setup” – “HDMI Audio Out” setting is set to “TV”.</td>
<td>Set to “TV”.</td>
<td>28</td>
</tr>
</tbody>
</table>

[Video]

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Cause</th>
<th>Countermeasure</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dolby TrueHD, DTS-HD, Dolby Digital Plus audio is not output.</td>
<td>HDMI is not connected.</td>
<td>Connect the HDMI.</td>
<td>13</td>
</tr>
<tr>
<td></td>
<td>Blu-ray Disc player’s audio output setting is not set to bitstream.</td>
<td>Set the Blu-ray Disc player. For details, refer to the Blu-ray Disc player’s operating instructions.</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>Blu-ray Disc player is not compatible with DTS sound playback.</td>
<td>Use a DTS-compatible player.</td>
<td>–</td>
</tr>
<tr>
<td>No picture appears.</td>
<td>The connections between the AVR-1910 and monitor are faulty.</td>
<td>Check the connections.</td>
<td>13 – 16</td>
</tr>
<tr>
<td></td>
<td>The monitor’s input setting is wrong.</td>
<td>Set properly.</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>PURE DIRECT mode is set.</td>
<td>Cancel the PURE DIRECT mode.</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>The player is connected using the component input connectors, the monitor is connected using the video (yellow) output connectors.</td>
<td>High definition (1080i/720p) and progressive (480p/576p) video signals are not down-converted. Set the player to interlace (480i/576i) signals.</td>
<td>–</td>
</tr>
<tr>
<td>Picture cannot be recorded.</td>
<td>Input source does not match recorder’s video connection (video).</td>
<td>The video conversion function does not work for the REC OUT connectors. Match the input source and recorder connections.</td>
<td>15</td>
</tr>
<tr>
<td>DVDs cannot be copied on a DVD.</td>
<td>This is not a malfunction. Most movie software includes copy prevention signals and cannot be copied.</td>
<td>–</td>
<td></td>
</tr>
</tbody>
</table>

The menu screen and status indicators are not displayed. | “OFF” is displayed for the status. | When viewing HDMI or component video signals via the AVR-1910, the on-screen display appears when the MENU button on the main unit or the MENU button on the main remote control unit. | 9 |
| | The display during tuner operation is “OFF”. | Set “Manual Setup” – “Option Setup” – “On-Screen Display” – “Master Volume” to “Top” or “Bottom”. | 30 |
| | The display during iPod operation is “OFF”. | Set when “Manual Setup” – “On-Screen Display” – “Tuner Information” is not “OFF”. | 31 |
| | When viewing HDMI or component video signals via the AVR-1910, the on-screen display appears when the MENU button on the main unit or the MENU button on the main remote control unit. | Set when “Manual Setup” – “On-Screen Display” – “Tuner Information” is not “OFF”. | 31 |
### [HDMI]

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Cause</th>
<th>Countermeasure</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDMI audio signals are not output from speakers.</td>
<td>• The “Manual Setup” – “HDMI Setup” – “HDMI Audio Out” setting is set to “TV”</td>
<td>• Set to “Amp”</td>
<td>28</td>
</tr>
</tbody>
</table>
| No picture appears with HDMI connections. | • The connections to the HDMI connectors are faulty.  
• HDMI input setting is improper.  
• The monitor is not compatible with copyright protection (HDCP).  
• The HDMI format of the player and monitor do not match. | • Check the connections.  
• Check the HDMI input setting.  
• Connect a monitor that is compatible with copyright protection (HDCP).  
• Match the HDMI format of the player and monitor. | 13  
33  
12 |
| No sound is output from the monitor connected with HDMI connections. | • The “Manual Setup” – “HDMI Setup” – “HDMI Audio Out” setting is set to “Amp.” | • Set to “TV.” | 28 |
| When performing the following operations on a connected device, AVR-1910 has the same operations.  
- Power ON/OFF  
- Switching audio output devices  
- Adjust volume  
- Switch input source | • HDMI’s CEC function is operating. | • Set “Manual Setup” – “HDMI Setup” – “HDMI Control” to “OFF.”  
When you only want to operate the power on/off each device, set “Power Off Control” to “OFF.” | 28 |

### [SIRIUS Satellite Radio]

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Cause</th>
<th>Countermeasure</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>“CHECK SIRIUS TUNER” is displayed.</td>
<td>• The SiriusConnect Home Tuner unit is not connected.</td>
<td>• Check that the connections are correct.</td>
<td>16</td>
</tr>
<tr>
<td>“ANTENNA ERROR” is displayed.</td>
<td>• The antenna is not connected.</td>
<td>• Check that the connections are correct.</td>
<td>16</td>
</tr>
<tr>
<td>“NO SIGNAL” is displayed.</td>
<td>• The signal cannot be received.</td>
<td>• Reposition the antenna.</td>
<td>–</td>
</tr>
<tr>
<td>“INVALID CHANNEL” is displayed.</td>
<td>• Channel is not present.</td>
<td>• Select another channel.</td>
<td>–</td>
</tr>
<tr>
<td>“ACQUIRING SIGNAL” is displayed.</td>
<td>• The signal cannot be received.</td>
<td>• Reposition your SiriusConnect Home Tuner and Home Dock antenna.</td>
<td>–</td>
</tr>
<tr>
<td>“Call SIRIUS” * is displayed.</td>
<td>• Channels are not subscribed to.</td>
<td>• If you subscribe to the channel, you can receive the channel.</td>
<td>–</td>
</tr>
<tr>
<td>“SUBSCRIPTION UPDATED” is displayed.</td>
<td>• While updating contract information.</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>“Enter Lock Code [      ]” is displayed.</td>
<td>• Selected channels are locked.</td>
<td>• Please insert pass word (4 digits) into “[      ]”.</td>
<td>41</td>
</tr>
</tbody>
</table>

* : After scroll displays “Call 888-539-...” twice, displays “Call SIRIUS.”

### [iPod]

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Cause</th>
<th>Countermeasure</th>
<th>Page</th>
</tr>
</thead>
</table>
| iPod cannot be played. | • The input source assigned to “iPod Dock” is not selected.  
• Cable is not properly connected.  
• Control dock for iPod’s AC adapter is not connected to power outlet. | • Switch to the input source assigned at “iPod Dock.”  
• Reconnect.  
• Plug the control dock for iPod’s AC adapter into a power outlet. | 33  
14  
– |
1. Turn off the power using \(\text{-\text{on}}\) on the main unit.

2. Press \(\text{-\text{on}}\) while simultaneously pressing \(\text{-\text{on}}\) and \(\text{-\text{on}}\) on the main unit.

3. Once the display starts flashing at intervals of about 1 second, release the two buttons.

If in step 3 the display does not flash at intervals of about 1 second, start over from step 1.

Restoring all the settings to as they were at the time of purchase (Resetting the Microprocessor)

Perform this procedure if the display is abnormal or if operations cannot be performed.

When the microprocessor is reset, all the settings are reset to their default values.

Audio section
- Power amplifier
  - Rated output:
    - Front (A, B): 90 W+90 W (8 Ω/ohms, 20 Hz – 20 kHz with 0.08 % T.H.D.)
    - 125 W+125 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)
    - Center: 90 W (8 Ω/ohms, 20 Hz – 20 kHz with 0.08 % T.H.D.)
    - 125 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)
    - Surround: 90 W+90 W (8 Ω/ohms, 20 Hz – 20 kHz with 0.08 % T.H.D.)
    - 125 W+125 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)
    - Surround Back: 90 W+90 W (8 Ω/ohms, 20 Hz – 20 kHz with 0.08 % T.H.D.)
    - 125 W+125 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)

  - Output connectors:
    - Front: A or B 6 ~ 16 Ω/ohms
    - Center, Surround, Surround Back / Amp Assign: 6 ~ 16 Ω/ohms

- Analog
  - Input sensitivity / Input impedance: 200 mV / 47 kΩ/kohms
  - Frequency response: 10 Hz – 100 kHz — +1, –3 dB (DIRECT mode)
  - S/N: 100 dB (IHF-A weighted, DIRECT mode)

- Video section
  - Standard video connectors
    - Input / output level and impedance: 1 Vp-p, 75 Ω/ohms
    - Frequency response: 5 Hz – 10 MHz — +1, –3 dB
  - Color component video connector
    - Input / output level and impedance: Y (brightness) signal — 1 Vp-p, 75 Ω/ohms
    - Pb / Cb signal — 0.7 Vp-p, 75 Ω/ohms
    - Pr / Cr signal — 0.7 Vp-p, 75 Ω/ohms
    - Frequency response: 5 Hz – 60 MHz — +0, –3 dB

- Tuner section
  - FM
    - Receiving Range: 87.5 MHz – 107.9 MHz
    - Usable Sensitivity: 1.2 μV (12.8 dBf)
    - 50 dB Quieting Sensitivity: MONO 2.8 μV (20.2 dBf)
    - S/N (IHF-A): MONO 48.7 μV (45.0 dBf)
    - Total harmonic Distortion (at 1 kHz): MONO 0.7 %
    - STEREO 1.0 %

  - AM
    - Receiving Range: 520 kHz – 1710 kHz
    - Usable Sensitivity: 18 μV
    - S/N (IHF-A): MONO 70 dB
    - STEREO 67 dB
    - Total harmonic Distortion (at 1 kHz): MONO 0.7 %
    - STEREO 1.0 %

- General
  - Power supply: AC 120 V, 60 Hz
  - Power consumption: 5.5 A
  - Maximum external dimensions: 434 (W) x 171 (H) x 377 (D) mm (17-3/32” x 6-47/64” x 14-27/32”)
  - Weight: 10.7 kg (25 lbs 5.7 oz)

Remote control unit (RC-1117)
- Batteries: R6/AA Type (two batteries)
- Maximum external dimensions: 52 (W) x 243 (H) x 21 (D) mm (2-3/64” x 9-9/16” x 53/64”)
- Weight: 184 g (Approx 6.5 oz) (including batteries)

* For purposes of improvement, specifications and design are subject to change without notice.
### List of preset codes / Liste de codes préréglés

#### Television

<table>
<thead>
<tr>
<th>Code</th>
<th>Device</th>
</tr>
</thead>
<tbody>
<tr>
<td>A001</td>
<td>3M</td>
</tr>
<tr>
<td>A002</td>
<td>Addison</td>
</tr>
<tr>
<td>A003</td>
<td>Admiral</td>
</tr>
<tr>
<td>A004</td>
<td>Advent</td>
</tr>
<tr>
<td>A005</td>
<td>Adventure</td>
</tr>
<tr>
<td>A006</td>
<td>Akai</td>
</tr>
<tr>
<td>A007</td>
<td>Albatron</td>
</tr>
<tr>
<td>A008</td>
<td>Allenor</td>
</tr>
<tr>
<td>A009</td>
<td>America Action</td>
</tr>
<tr>
<td>A010</td>
<td>Ampco</td>
</tr>
<tr>
<td>A011</td>
<td>Antiron</td>
</tr>
<tr>
<td>A012</td>
<td>Aran</td>
</tr>
<tr>
<td>A013</td>
<td>Aran National</td>
</tr>
<tr>
<td>A014</td>
<td>AOC</td>
</tr>
<tr>
<td>A028</td>
<td>Apex</td>
</tr>
<tr>
<td>A029</td>
<td>Apex Digital</td>
</tr>
<tr>
<td>A030</td>
<td>Audiovox</td>
</tr>
<tr>
<td>A031</td>
<td>Aventura</td>
</tr>
<tr>
<td>B001</td>
<td>Axion</td>
</tr>
<tr>
<td>B002</td>
<td>Bang &amp; Olufsen</td>
</tr>
<tr>
<td>B003</td>
<td>Barco</td>
</tr>
<tr>
<td>B004</td>
<td>Belcor</td>
</tr>
<tr>
<td>B005</td>
<td>Bell &amp; Howell</td>
</tr>
<tr>
<td>B006</td>
<td>Beng</td>
</tr>
<tr>
<td>B007</td>
<td>Blue Sky</td>
</tr>
<tr>
<td>B008</td>
<td>Bradford</td>
</tr>
<tr>
<td>B009</td>
<td>Brillant</td>
</tr>
<tr>
<td>B010</td>
<td>Brockwood</td>
</tr>
<tr>
<td>B011</td>
<td>Bravo &amp; Evers</td>
</tr>
<tr>
<td>B012</td>
<td>BTX</td>
</tr>
<tr>
<td>B013</td>
<td>Cabel</td>
</tr>
<tr>
<td>B014</td>
<td>Cand</td>
</tr>
</tbody>
</table>
## Video Cassette Recorder

<table>
<thead>
<tr>
<th>A</th>
<th>ABS</th>
<th>035</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Adventura</td>
<td>008, 033</td>
</tr>
<tr>
<td></td>
<td>Alwa</td>
<td>008, 033</td>
</tr>
<tr>
<td></td>
<td>Aki</td>
<td>020</td>
</tr>
<tr>
<td></td>
<td>Alienware</td>
<td>035</td>
</tr>
<tr>
<td></td>
<td>American High</td>
<td>032</td>
</tr>
<tr>
<td></td>
<td>Asha</td>
<td>013, 030</td>
</tr>
<tr>
<td></td>
<td>Audio Dynamics</td>
<td>018</td>
</tr>
<tr>
<td></td>
<td>Audiodoc</td>
<td>031</td>
</tr>
<tr>
<td>B</td>
<td>Beaumark</td>
<td>013, 030</td>
</tr>
<tr>
<td></td>
<td>Bell &amp; Howell</td>
<td>029</td>
</tr>
<tr>
<td></td>
<td>Broksonic</td>
<td>058</td>
</tr>
<tr>
<td></td>
<td>Calix</td>
<td>031</td>
</tr>
<tr>
<td></td>
<td>Candle</td>
<td>030, 031</td>
</tr>
<tr>
<td></td>
<td>Canon</td>
<td>032</td>
</tr>
<tr>
<td></td>
<td>CineVision</td>
<td>058</td>
</tr>
<tr>
<td></td>
<td>Citizen</td>
<td>030, 031</td>
</tr>
<tr>
<td></td>
<td>Colortyme</td>
<td>018</td>
</tr>
<tr>
<td></td>
<td>Craig</td>
<td>013, 030, 031</td>
</tr>
<tr>
<td></td>
<td>Curtis Matthes</td>
<td>012, 018, 030, 032</td>
</tr>
<tr>
<td></td>
<td>Cybernex</td>
<td>013, 030</td>
</tr>
<tr>
<td></td>
<td>CyberPower</td>
<td>035</td>
</tr>
<tr>
<td></td>
<td>iBUYPOWER</td>
<td>035</td>
</tr>
<tr>
<td></td>
<td>JVC</td>
<td>063, 076</td>
</tr>
<tr>
<td></td>
<td>Linksys</td>
<td>035</td>
</tr>
<tr>
<td></td>
<td>Media Center PC</td>
<td>035</td>
</tr>
<tr>
<td></td>
<td>Microsoft</td>
<td>035</td>
</tr>
<tr>
<td></td>
<td>Mind</td>
<td>035</td>
</tr>
<tr>
<td></td>
<td>Nuvia Media</td>
<td>035</td>
</tr>
<tr>
<td></td>
<td>Northgate</td>
<td>035</td>
</tr>
<tr>
<td></td>
<td>Panasonic</td>
<td>070</td>
</tr>
<tr>
<td></td>
<td>Philips</td>
<td>063, 065, 066, 067, 068, 072</td>
</tr>
<tr>
<td></td>
<td>Proscan</td>
<td>077</td>
</tr>
<tr>
<td></td>
<td>RCA</td>
<td>063, 065, 072, 077</td>
</tr>
<tr>
<td></td>
<td>ReplayTV</td>
<td>069</td>
</tr>
<tr>
<td></td>
<td>Samsung</td>
<td>065, 067, 072</td>
</tr>
<tr>
<td></td>
<td>Sonic Blue</td>
<td>069</td>
</tr>
<tr>
<td></td>
<td>Sony</td>
<td>035, 064, 074, 078</td>
</tr>
<tr>
<td></td>
<td>Stack</td>
<td>035</td>
</tr>
<tr>
<td></td>
<td>Systemax</td>
<td>035</td>
</tr>
<tr>
<td></td>
<td>Tagar Systems</td>
<td>035</td>
</tr>
<tr>
<td></td>
<td>Tivo</td>
<td>063, 065, 066, 068, 073, 074, 078</td>
</tr>
<tr>
<td></td>
<td>Toshiba</td>
<td>035, 075</td>
</tr>
<tr>
<td></td>
<td>Touch</td>
<td>035</td>
</tr>
<tr>
<td></td>
<td>UltimateTV</td>
<td>077</td>
</tr>
<tr>
<td></td>
<td>Viewsonic</td>
<td>035</td>
</tr>
<tr>
<td></td>
<td>Voodoo</td>
<td>035</td>
</tr>
<tr>
<td></td>
<td>Z</td>
<td>ZT Group</td>
</tr>
</tbody>
</table>

## Satellite Receiver

<table>
<thead>
<tr>
<th>A</th>
<th>AccessHD</th>
<th>109</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Alpha Digital</td>
<td>109</td>
</tr>
<tr>
<td></td>
<td>Alphastar</td>
<td>083</td>
</tr>
<tr>
<td></td>
<td>Artec</td>
<td>106</td>
</tr>
<tr>
<td></td>
<td>CaptiveWorks</td>
<td>102</td>
</tr>
<tr>
<td></td>
<td>Channel Master</td>
<td>111</td>
</tr>
<tr>
<td></td>
<td>Chaparral</td>
<td>077</td>
</tr>
<tr>
<td></td>
<td>Coolcast</td>
<td>103</td>
</tr>
<tr>
<td></td>
<td>Coship</td>
<td>114</td>
</tr>
<tr>
<td></td>
<td>Crossdigital</td>
<td>120</td>
</tr>
<tr>
<td></td>
<td>Digital Stream</td>
<td>110</td>
</tr>
<tr>
<td></td>
<td>DIRECTV</td>
<td>058, 059, 060, 061, 062, 063, 064, 068, 069, 073, 074, 076, 078, 088, 089, 093, 095, 116</td>
</tr>
<tr>
<td></td>
<td>Dish Network</td>
<td>052, 053, 054, 055, 056, 059, 061, 115, 119</td>
</tr>
<tr>
<td></td>
<td>Dishpro</td>
<td>115, 119</td>
</tr>
<tr>
<td></td>
<td>Drake</td>
<td>078</td>
</tr>
<tr>
<td></td>
<td>Echobast</td>
<td>052, 065, 091, 115, 119</td>
</tr>
<tr>
<td></td>
<td>Expressu</td>
<td>119</td>
</tr>
<tr>
<td></td>
<td>GE</td>
<td>056, 057, 112</td>
</tr>
<tr>
<td></td>
<td>General Instrument</td>
<td>079, 117</td>
</tr>
<tr>
<td></td>
<td>GSL</td>
<td>119</td>
</tr>
<tr>
<td></td>
<td>Goodmnd</td>
<td>112</td>
</tr>
<tr>
<td></td>
<td>Hisense</td>
<td>112</td>
</tr>
<tr>
<td></td>
<td>Hitachi</td>
<td>074, 084</td>
</tr>
<tr>
<td></td>
<td>HITS</td>
<td>119</td>
</tr>
<tr>
<td></td>
<td>Hughes Network Systems</td>
<td>050, 052, 056, 067, 068, 070, 075, 079</td>
</tr>
<tr>
<td></td>
<td>Humax</td>
<td>104</td>
</tr>
<tr>
<td></td>
<td>Ito</td>
<td>118</td>
</tr>
<tr>
<td></td>
<td>Insigina</td>
<td>096</td>
</tr>
<tr>
<td></td>
<td>Jerrold</td>
<td>117</td>
</tr>
<tr>
<td></td>
<td>JVC</td>
<td>052, 065, 091, 119</td>
</tr>
<tr>
<td></td>
<td>Lasonic</td>
<td>113</td>
</tr>
<tr>
<td></td>
<td>LG</td>
<td>096, 105</td>
</tr>
<tr>
<td></td>
<td>Magnavox</td>
<td>073, 107</td>
</tr>
<tr>
<td></td>
<td>Memorex</td>
<td>073</td>
</tr>
<tr>
<td></td>
<td>MicroGem</td>
<td>108</td>
</tr>
<tr>
<td></td>
<td>Mitsubishi</td>
<td>068, 099</td>
</tr>
<tr>
<td></td>
<td>Motorola</td>
<td>117</td>
</tr>
<tr>
<td></td>
<td>N</td>
<td>Next Level</td>
</tr>
<tr>
<td></td>
<td>Panasonic</td>
<td>061, 095, 097</td>
</tr>
</tbody>
</table>

## DVD/VCR Combination

<table>
<thead>
<tr>
<th>B</th>
<th>Broksonic</th>
<th>056</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>CineVision</td>
<td>058</td>
</tr>
<tr>
<td>G</td>
<td>Go Video</td>
<td>048</td>
</tr>
<tr>
<td>S</td>
<td>Insignia</td>
<td>059</td>
</tr>
<tr>
<td>P</td>
<td>Panasonic</td>
<td>002, 003, 004</td>
</tr>
<tr>
<td>S</td>
<td>Samsung</td>
<td>040, 048, 049</td>
</tr>
<tr>
<td>S</td>
<td>Sony</td>
<td>037, 045, 052, 053, 054</td>
</tr>
<tr>
<td>S</td>
<td>Sylvania</td>
<td>046</td>
</tr>
</tbody>
</table>

## TV/VCR Combination

<table>
<thead>
<tr>
<th>R</th>
<th>RCA</th>
<th>051</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>Sylvania</td>
<td>055</td>
</tr>
</tbody>
</table>